

4449	12500	A	5355	2	5217	APLDGEVELLQQKLREKLDEFNELAIQK ESADROVLMQEEIIRLEEMNINIRKKV AQLQEEVEKQKNIVKGLEQDKEVLKKQ QMSSLLLASTLQSTLDAGRCPEPPSGSP EGPEIQLEVTVQALLRRESEVLDLKEQLE KMKGDLESKNEEILHLNLKLDMQNSQT AVSLRELEEENTSLKVIYTRSSEIEELKAT IENLQENQKRLQKEKAEIEQLHEVIEKL QHEL SLMGPVVHEVSDSQAGSLQSELLC
4450	12501	B	5356	224	326	XSSSDGNLRPEAITAIVVFSLLAALLLAV GLALL*
4451	12502	A	5357	87	558	STFFPAIKHWVDLTAQRGHCLSPRSHSN EGRQMQRGPRWAGSPAPSPWSPEGPG PRLHGRTERKERGLWGLLDTQRKVGSA SRGVGPEPQHT*AAGTAKQRQHAQSP HGCPQPLPTSPPEPSEAGVSVAAAVYKP ATRSPGQCWWLQQAPAFR
4452	12503	A	5358	3	713	TDRGCRGRDTFHEPELG/PKTPGPGAPLQ VPLAGDAVGGASARSPFLGAGNPPPIPW RTP*AGAASGAGPAAPAGPLGPSLG/RKY RPLLRMRJALFCLHPPAPAPMATCVHKP SLLSSRSSTS/SAALLAVGAGTVGAE/RF GRSGRRRAPTPGVARSSSPMQPRPGPLR TPRRRCRAACPSRSPLLHLSPIAV*PWG KAVPSLGSQIHPVLNSREEGTSKTLPLRS REDGAIHFYIFI
4453	12504	A	5359	2	807	RPOGFPAWRLPSRRGATPGRLPSP*PRPH PRPEPGVRVGPWVHIESVR/HQDCSGRSP GQTPTCEDRAPSGKGSALGRGSLGPWTL IGSGRG/RSPGKLGSPGPAKAF*RRR/RA SKVAPGPLDGPRIAQAWAREKKGHLA WGTGGSWPPSHAPGHQLGFQLKQPLGN QREWGQNLGIQDL*GQVDPNRPPLSGP GDRHLT GKPSGREGALSQGPQGRHSPGR PQQQASSSCCERSIHPGLPPVTHCPGVQ WASCPGWGCLARCSPPRA
4454	12505	A	536	426	634	VFCYSRTNWNKTEINRKKFGKLPISWKL SSTLLNNQ/L/VSEENKREIKKYPDINENE DTTYQNLWNLKQC
4455	12506	A	5360	1	412	FFFFLRWSL/NSV/SQAGVQWWDL SLLQP LLPGFKQFSCLSLLSSWDYGCPRPANFL HF**RQGF TMLFRLVSN*PHDSPISASQS AGVIGVSHRARPSCLLLAYFSEFVSKWK QSSTKALPCGFRMLCPVLTPEK
4456	12507	A	5361	3	884	YLSIHQVYGKEACIPCGPGSKNNQDHSV CYSDCFFYHEKENQSLHYDFSNLSSVGS LMNGPSFTSKGTKYFHFFNISLCGHEGK KMALCTNNITDFNVKEIVAGSDDYTNL VGAFCQSTIIPSES/TGVSEQPYHHNPIIL ADTFIGVTVETLKNINIKEDMFPVPTSQI PDVHFFYKSSTATTSCINGRSTAVKMRC NPTKSGAGVISVPIKCPAGTCDGCTFYFL WESAEACPLCTEHDHFHEIEGACKRGFQE TLYVWNEPKWCIKGISLPEKKLATCETV DFWLKVGAGV

4457	12508	A	5362	3	2697	CSVKECLQASAKLPSAPASVSLCLLVA KVWRRRLRWQEAASFSCASGEYLEMKNQ VCSKCGEGTYSLGSGIKFDEWDELPAGF SNIATFMDTVVGPDSRDPGCGNNSSWIP RGNYIESNRDDCTVSLIYAVHLKSGYV FFEYQYVDNNIFFEFFIQNDQCQEMDTT DKWVKLTDNGEWGSHSVMLKSGTNILY WRTTGILMGSKAVKPVLVKNITIEGVAY TSECFCKPGTFSNKPFSFNCQSCKIIDPF LKRFFYVAEEGSSECTERPPCTTKDYFQI HTPCDEEGKTQIMYKWIEPKICREDLTD AIRLPPSGEKKDCPPCNPGFYNNGSSSCH PCPPGIFSDGTKECRPCPAGTEPALGFY KWWNVLPGNMKTSCFNVGNSKCDGMN GWEVAGDHIQSGAGGSDNDYLILNLHIP GFKPPTSMTGATGSELGRITFVFETLCSA DCVLYFMVDINRKSTNVVESWGGTKEK QAYTHIIFKNATFTFTWAAPEN*FRVQD NRRFINDMVKIYSITATNAVDBGVASSCR ACALGSEQSGSSCVPCPPGHYIEKETNQC KECPPDTYLSIHQVYGKEACIPCGPGSKN NOGKKMALCTNNITDFTVKEIVAGSDDY TNLVGAFVCQSTIIPSESKGFRAALSSQSI ILADTFIGVTVETTLKNINIKEDMFPVPTS QIPDVHFFYKTIYRQIIDIKCPAGTCDGCT FYFLWESAEACPLCTEHDFHEIEGACKR GFQETLYVWNEPKWCIKGISLPEKKLAT CETVDFWLKVGAGVGAFVALLVALTC YFWKKNQKLEYKYSKLVMTNSKECEL PAADSCAIMEGEDNEEEVVYSNKSLLG KLKSLATKTAIGVFGGPWSLGYVISCQY SETRSSCIISVHAKNEILAIEEE
4458	12509	A	5363	1	1146	NFDSKRRTVRLNRIREDIAKYLRNLDPN SAHYDPKTRAMRENPHYANAGKNPDEVS YAGDNFVRYTGDITISMAQTQLSVSSMS SHFISAHKTFGIV*SLFSRSIQ*CSCQLTK MFRITLVFAWEAYDKGSEVHLAQADP/T KLELLYKSFKVKKVEDFKEQQKESILEK YGGQEHLDAPPAELLLAQTEDYVEYSR HGTVIKGQERAVACSKYEEDVKIHNHTH IWGSYWKEGRRGNKCCHSFFKYSYCTG EAGKEIVNSEECINEITGEESVKKPQTLN ELHQEKLKEKKKKKKKKKKHRKSSSD SDDEKMGHVKSNAKALNA*EARLLHVKE TMQNDERKRPYNSMY*TSRPIEEMEAE YRMK\QRPPDDPMASFLGQ
4459	12510	A	5364	3	1589	APALKVILRYT*TDAPAIWWLDPELTYG CAKPFVFTQGHSVNRSFFPCFDTPAAK CTYSAVVKAPSGVQELMSATRSAYMEE EGVFHFHMEHPVPAYLVALVAGDLKPG DIGPTSRVWAEPCLLPATSKLSGAVEQ WLSAAERLYGPYMWGRYDIVLPPSPFI VAMENPCLTFIISILESEFLVIDVIHEVA HSWFGNAVNTATWEEMWLSEGLATYA QRRITTETYGAAFTCLETAFLDALHRQ MKLLGEDSPVSKLQVKLEPGVNPISHLRN LFTYEKGYCFVYYLSQLCGDPQRFDDFL RAYVGEYKFTSVVAQDLLDSLSFFPEL KEQSVDCRAGLEFERWLNATGPPLAEPD LSQGSSLTRPVEGLFQLWTAEPDQAAA SASAIISKWRTFQTALFLDRLLDGSPLP QEVVMSLSKCYSSLLDSMNAEIRIRWLQ IVVRNDYYSLT/FHRVRRFPGRARCHAC YTIPLYEDLCTGALKSFALEVFYQTQGR HPNLRRAIQQILSQGLGFQHRARP

4460	12511	A	5365	1	418	FMGGVNRADENIDKYRASIRGKKWYSS PLLFCFELVLQNAWQLHKTYDEKPVDFL EFRRRVVCHYLETHGHPPEPGQKGRPOK RNIDSRYEGP*IQVDSNPQGK\QTRCAEC HKNTTFARCEKCDVAL\HVKCS\VEYHTE
4461	12512	A	5366	1	205	KKFSCGLKKIFHEKNCQST*QISLLSYFK KLQQPQLSSTTL/SQQPSTLRQNPAPK RL*LIEGSADG
4462	12513	A	5367	1	389	CRFNAISSKITADFTVFGGFLLEVHKVIL KCKWKYY\KSRIVKTGFKKTQLS/GLILH NNKT*YTSIIKTELTKYRHARMENPEIDL HRFDQMIFDEGIKVIQ*GKERLFNQWCW SRLRCICLKFSITNGQ
4463	12514	A	5368	2	300	TFPNLMTNMNLQIEAQ*IPSWKNSE/RS Q/SRHLIKLLKIKGKERILKVEQKLITYKG CSIRLRGDFSPETTEARK*WDDIFKVLKE QVSTKNLIFSKTVL
4464	12515	A	5369	199	494	
4465	12516	A	537	1190	2097	SSCLKILNITLAKSLLL/CLDISVCYLLD TGICYCLLDISVCYCLLDISICYCLLDTSV CYCLLDISVCYCLLDNISICYLLDTGICYC LLDISVCYCLLDISVCYCLLDISVCYCLL DISVCYLLDISVCYCLLDISVCCCLLDIS VCYCLLDISVCYLLDISICYCLLDISVCY CLLDISVCYCLLDISICYCLLDISVCYCLL DISVCNCLLDISFCYLLDISVCYCLLDIS VCYCLLDISVCYLLDISVCYCLLDISVC YCLLDISVCYLLDNSVCYCLLDISICCC LLDISH
4466	12517	A	5370	256	514	
4467	12518	A	5371	2	1340	SLDLGGISTVVVNGYDVVKECLVHQSEI FADRPCLPLFMKMTKMGGLLK\SRYGR GWVDHRRALVNSFRYFGYGQKSFESKIL /EKETKFFNGCYWKHTKVGPFD*TV**R MLFSNITNLIHFWEERFHFMQGHRFFRH MDWSYFRWKMWN*AASASVFLYNAPF W\IWA/FLPFGKHQQLFRK/WTAVVYDFL SRLIEKASVNRKPQLPQHFDAYLDEMD QGKNDPSSSTFSKENLIFSVGELIAGTETT TNVLRWAILFMAALYPNIQGVQKEIDLI MGPNGKPSLGR/RNAKCPYTEAVLHEVL RF\GNIVPLGIFHATSEDA\LRGYSPKGT T\ITKP*FLYHLGWKKVPGEDPQKVFP ERFPGTSSGIFWPQEGKLWVPFFPLGRRH CPWENTLARMEMVLFSSIASEVSFAFS HMN*FQI*SPRLGMTLQPPYLICAERR
4468	12519	A	5372	135	273	
4469	12520	A	5373	1	344	LNTLPEVPFTPLSCLPSLSLSS*LAPSPFICI CYAIVP/PPFLLLPSDLADPSSHPLPFLFP PHSPRHAPSAPPSKKKKKKKKKKKTTA PVQASLGTSSLYPLGGSETGPTWS
4470	12521	A	5374	1	724	GRRGRGRAGSRAGRRGAQAAALVNR GGGPIRNY\SDVAGGAAGG\GGRNRPAP YSRPKQLPDKWQHDLFDSGFGGG/AAG VETGGKLL\VSNDLFGVSDADIQELFAE FGER*RRAAVHYDRSGRSLGTADVHFER KADALKAMKQYNGVPLDGRPMNIQL VTSQIDAQRRPAQ\SVNRGGMTRNRGA GGF\GGWVDGTRKGTARGGA\RGGRGA GRNSKQQLSAEELDAQLDAYNARMDTS
4471	12522	A	5375	37	331	GLLCQASGPQAPGWAPGLGRRGQGSNP LPVPPRPVPA*/APGHTCHAL/GKIPF*VPL PLQ*GPPETHLREPPPGPCPPS/PVPSPYQ GFLQPGGRAGGDRD

4472	12523	A	5376	1	385	FFFFFFFFETETCSVA*AGVQWRDLD*LQ PPPPGFKRFLCLSRPSSWDYRCTSPYLAH F*FLVETGFHHVGGAGLELLTSSDPPISA SQSAGITGVSHCTWPKLTSTLMNVFPL NIILLYLVILAK
4473	12524	A	5377	21	352	PTHPWPPTVLEATAPGSEYFF*DAVLLS SRRLECSG/SISAHCDLHLPSSSDSPSSVP QVAWIIGVRHHVQLIFVFLVEMGFRHVD QAGLK/IA*PQVIHPPRPHKVLGLQV
4474	12525	A	5378	2	545	TCLGFFQMFFLGLSIFVCYILLKFDCVFI SSNLGSLIFVCYILLKFDCVFISSQLPFFT FYMDYSNPLGLSMSSLRIS*KTF*MYG*V LYFAFF*KRNSQCFPPFNRDYFWIVCSSV DLFCTLFFTSCPHQQPSCSPPPGNGKGA PLPTVTLEALKMMMVFIFGLSSRJRGRS WKSP
4475	12526	A	5379	545	1462	GYFPCFIPVATS*QSIGVVNF*LFEYFVY IYIFEGFWGGLICKVSSVCLFQVYFSA KIIPEPGFKTTLPPSTLVNNWELTSLHQP K/RPANFVIFGKRQGFHVGPGLNSGPHA IRPASASQSTGITGVSHCACALNFITEP
4476	12527	A	538	163	372	IRQRKAKLVVLAFNRRGLRKPDIFFYAG VGKIVKKKYSGFFIELVTTGKNYLMCA LAVIDPRDSNIIRS
4477	12528	A	5380	2	243	GFKQFSCLSHPSSWDYRCAPPHPTNF*F LVEPGFHHVGGAGLELPTSGDLPALASQ SAGITGVSHHPWPMASALNSKNVR
4478	12529	A	5381	1	328	SPETGSCGAQAGVQWHDLGSLQP*LGL K*SSYLSLLSNWDYRCA/PPRLANFLFFV QAGSCHLAQAGLELLSSCHLPALVSQNA GITGVSHHARAGSCMEENTSLWLT
4479	12530	A	5382	2568	3052	RGTEGRRVKSSKAGFFCFVLCFVLRWS LTLLAQAGVQRHDLSSLQPPPTFK*FSC LSLPSSWDYRRPPRSG*F/SFVFLVETGF HQVGGAGLELLTSGDPPASASQSAGITG VSHHAQPQLDLEPPVCGQRDMALLLE RLPETVTCFLFPSELRRAR
4480	12531	A	5383	2	306	FFEMESCSAAQAGVQWHNPSSLQPLPG FKQFSCLSLPSSWDYRRAPHPANFVFL VDAFYHVGGAGLELLTSSDLLASAS*S AGITGMSHHGWP*ATF
4481	12532	A	5384	141	414	IRITEGGAQASVVFKTPQV/WLGTVAHTC SPSTLRSRGWIT*VQEFKTSQSNRNQRG CNLVWSLKLTSILLTFELDSIRQEEGKLV RRWGR
4482	12533	A	5385	2	287	GRVGNNKKFGGRISLC/QPGWSAVTQLQ LIVTLNSWAERFSQLDLPS*DYRCTCLA NFLTFCKDECLAMLLRLVLSWPQGIPL PQLLKVLELQV
4483	12534	A	5386	663	1014	ILKHYPSSQISSILQRKHTRQLSASLITNAK VFFQASRFNVSSHILALLQENIFYNTKP VICKPG/CVIRITF*KL*IASQVRWLT ALWEAEAGRSRGQGIKTILANTVKPRLY
4484	12535	A	5387	3	208	EDVNRWRDIPSPWIGRVRIVRMSVLPNP INNNTYINTEFLILI*Y*YRNTSIPIKISGRFF VLLRENN
4485	12536	A	5388	190	261	ISIF/CFFKTDSSCYAQAGVQ**NLGSLQ/P CNLQPLPPGFK*FSCLSLLSNWDYRCAPP /HPNFCIFSRDGISP*LSILPTTPIKVARKI LI

4486	12537	A	5389	31	1431	RETRSCWAHYHAESSKHQKAKLKDSRK ARRSIELIGPGSSQKGGDICSILHLSKSLGI LCYSKTGNMGGWEGGMQLRVSSSENSM GKSSRERAAADLPQGSCWHELPRLINT RISLKPRHVWNLSSVLCQVVKVKVSMQ MFHMPITSAMQGDRLGICVTQFDPKLL RGLVCAPESLHTVHAALISVEKIPYFRGP LQTKAKFHITVGHETVMGRLMFFSPAPD NFDQEPILDSFNFSQEYLFQEYLSKDLT PAVTDNDEADKKAGQATEGHCPRQW ALVEFEKPV/YLPSAVPGDWLQARCGHS PNTCRLAFHGQSCSTG*RTGT/NADSFLP RLKVYKCLKHKHGLVERAMDDYSVIGRS LFKKETNIQLFVGLKVHLSTGELGIIDSAF GQSGKFKIHIPGGLSPESKKDPDTPPSKT GPGWPVGGQPGRRRSPSGANPHKMGW LTRPFKRYVFDTHKRMVQSP
4487	12538	A	539	995	1192	IILGNLTACSFYTSSLNAVWLIKSAAMLQL YFIFVFGDRPSLCHPGWSAVVQSLLTAT STSWAQAE
4488	12539	A	5390	1	421	FFFW*GTESQLLPQCSGAIHAHCSL*LPG SSEPPTSAS*VPETIGTY/RHAWLFFFFNL FFVETGSHYVAQAGFEPLGSNDPPPPQP KLLGITGMRHHSRPELLPLTPMWSWESQ DGETEDFCAMETWKVNITCLAQTPRL
4489	12540	A	5391	1105	1497	LFRTSLLVIAFLPKKNFFF*HYA*SYNVH PNTARKIKPEFRAVRVSFLLSERMSNIFFF FFDTEFHS\VTRELECTG/T*SSTHCDPRLP GFEQILPASASQSSWDSPACATHARLIFV FLVETGFLHVGQAG
4490	12541	A	5392	109	695	LLIPSAVTSYPPKDLPWGGMILSKPPLL GSMLANNCIVAGGCS*SSTLPS*LSSWRV GPQHLPRHARPPHQVQYIISQDGVQHL LPQEYVVVPEGHHIQGGQGRITHIQYEQ GAPFLQESQIQYVPVSPGQQLVTQAQLE AAAHSAVTAVADAAMAQAPGPVWLQD EDKCPKHNSNKLQHPRASKYDVITPGR
4491	12542	A	5393	1	405	
4492	12543	A	5394	203	458	
4493	12544	A	5395	2	1185	LILNKKSRTRRSFFRRHGSPHGPAPWRP SRLAEPGELG*REREGYNNPISGENLIG LSRARRPHNAIFVNFEDDEVFKQPLEAA AQ\TWRRVCTNPVDRKVEEELRKASPA LRLAPLFDIRPIWSRNAVK\ANITVHPNRF KAWLPFIAYYMITGPWRSLWIRFGYDP RKNPDAKDL/YQVLD\IRRCGMKQGYA PSDLPVKAKRSTYN\YSLPITVKKTS\SQL VTMHDLEAWPWPRGRSGARKPASSKY KLKVSQTLRDSVY\FREGALPPY\RM FYQLCDLNV\EELQKIIHRNDG\AEDFLA QERGWGGCLPQGGDEF/RGDTMSPMIR ETIGSKRPALFSSSAKADGGKEQLTYES GEDEEDEVEEEEEEEDFKPSDGSSENM NQN
4494	12545	C	5396	95	295	MSTIKAPXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXLSSLRIILFQNIYLYWDKIT FLYCEHTVGAQ*
4495	12546	C	5397	262	390	
4496	12547	C	5398	118	132	
4497	12548	A	5399	109	559	QFLHRLVHDSGEVWMKLVE**NTLLAK MVSISWPRDLPASASQSAGITGLIGALVL SVGIAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPGKH
4498	12549	A	540	77	199	SKSRPIASNKIEAIKSLPAKKP\GPDGFAT EFYQTFKEEL

4499	12550	A	5400	1	362	FFFFLRRSL/SSVPQAGVQ*HDLSSLQPP/ PPGFTPFSCLSLPSSWDYRCPPRPAPKFFL YF**RRGFTMLARMVSI*PRDPPASASQ SAGITGVSHRARPPPPQFFIQLPLYNIHTL EGR
4500	12551	A	5401	2	462	NPPTSAS*VAGTTGACYHTRLILVCRDR VSPCCP/VLVFFFF*DRVAQAGVQWHG LGSTCQPSCPPGFKRFLPSDSPALSPSS WEYRHPPRPANFFCIVETGF\TVLAR MVISI*PRHLPALASQSAGITGLSHCARP VDSFLATSIY
4501	12552	A	5402	3	352	SSRPGSCRRGAVRAAIRYVRLRAVPSGG GEPPSGAPLQPSWK*AFARPGMLRCSPM SQAPSRSAAVLFEPLAEWMLHCA*QDEV RLGGH*GRRGPLLLDRSRA*RESPAEVRP ARE
4502	12553	A	5403	3	286	SVAQVGMHGHSLGSLQPLPPGLK*SSHL NLPSSWDYRHAPPHLANFCIFFVETGFR HASQAGLKSLSSSNWPTLASQSVVITGV SHRAQPC*TF
4503	12554	A	5404	73	542	VLIFFFFLKLSD/DSVA*AGVQWCNLSSL QPPSPGFK*FSCLSLLSSWDYRCVPPSPA NFFIFLVETGF\TVLARMVISI*PHDPPTL ASQSVGITGMSHCPWTDLIF**CKRDTLC IPSMLS**FKVPKGNLIWKLLGKFGGLP LGIONAYFWIV
4504	12555	A	5405	1	397	EMESSSVTQA*VQWHDALLQPPPPRFN RFSCLSLLSSWDYRCPLSPANFCIFSRD/ MGFIVLARLVLS*PNLDPASASQSAGIT SVTHRIWSKIFRVDNDHYILFSSMELN VPTIVLCYHPQSSNMYS
4505	12556	A	5406	72	243	EPMTQVSMFSILRQPMKTTGMRIAMQE KVTQNTPPSS*KIFRFPYSLIGVSLVISI
4506	12557	A	5407	34	420	MLYSHDPELS*QRVLTALYAVFPFVVPV DFL*I*FPSALVSIGSRLL/PVLSHWFLDL RV\FH*FEKAHL*KLCGNP/WLSALLSTF KVM*ERLVDQ*LSMAKTTE*EPMTQVS MFSCGRVEEFRHHP
4507	12558	A	5408	3	316	FFNFNSRQGLCHPSWSAVTQSRLTVASIF RVQGSLSLLGSW/DARHVPPCLANF* FFCRD/RGLVMLPMSVSNWAQAILPPW LPSIGITGVSHHVWLASLFVF
4508	12559	A	5409	905	1291	RGADTCLGFQVSADLHHLFSLFCSVAQ AGVQWRNLGSLQPPPGFKLFSCLSLLSS WDYRHAPP/RPG*FFVFLVETGFTRVGQ AGL*LLTSGDPPA\SASQTA/RGL*GMSH LASPIYLDYFK*NFNKP
4509	12560	A	541	212	322	
4510	12561	A	5410	2	308	FLRHNLAVTQPGAQWRLSSLQPLPPEL KPSSHFLPSSWEYRCEPPHPANF*FLVE TGFHHVAQAGLEFLASSDPPTSFAFNAG VTGVNHSAWLCFSYLL
4511	12562	A	5411	3	368	HRGESVWNICRWGTLR*GKIGKMTRAH CLEFIGALIVFSITSPAPFEAPKWKNLDL *TLTHGRPVSVVLLAKKCDHG/KDECRN SSLKMGQIYMEHSFVG*IETSAKENVNF DEASRCLDAK
4512	12563	A	5412	73	380	GQALQWCVSVMCSHSHPCV*VLWV CV\CLCISMCMYSYACVLGYTKFGVCTE KNKQNCCTGNRSTOGLPLNRHTGSFRF WLDHFHPLASPKGTLSLLSP
4513	12564	A	5413	1	400	NSEGAAWIQPPAGEPTWGQSGGTQORAG AMP PGDYS*SQGHPFLH/RAPPLTRNR RIFLRRAPSPVLEDPRKPPSRGQQL*DA LHHVLVAQLREGMLGQPRPHHPKPIK *SQHA*QLPAGEPEVGPAGADR

4514	12565	A	5414	1	895	LRRARPRGWAGREAGPHPH*LRCRSSA ALRPAFTRPGTGETGLDRTEGRDQTSV NSAT/RLPNTPSR\SAGGSSLQTQRGLPGS SPQQENRPGDKAEAPKQGE/RMPPGDYF VIPRTPLSPAPPPLTRNRRIFLRRAPSPV LERPPEASKQRTATPLRRTAPCASGAAQ RGDVSGRGVCKAGEQG*PPNNPRLRR SQAHARKRRRGDKFGVRPLQYCAF*DF WRRLSWQNPFPKATLPLLR*PLPPPLQA GTAPSPSSSQAN*MITARVTVTGWRAG SGTGSKGP*EPGRASFPS
4515	12566	A	5415	20	481	PTDRPGEHSKTPSLQKCKK*KLACSGT CL*S*ILGRLRQKDHLSPGVGRGYNEL*SC HCTPSWVAE*GPVSK*IIQSPRKE*S/LY NEKNPSN*HIVDSGEWFSFVFLGADRWG AGVLYQRVRLSQMCNERGHKHCIPITI YLPYKPLCLPAL
4516	12567	A	5416	236	820	RRPQQAGKMKGSRIELGDVTPHNLFNCL ILCGVTSPNIKQLAKRLNQVIFPVSYNDKF YKDVLEVGETKLAYFNDAVAVCCR VDHSQNKRLYIMDTRDVWAPYRSLGI RELKC*IMCLKHLLKKMVLFDNIFLHVQI SNESAIDFYRKFGFEIAPKKNYYKRIEPA DAHVLQKNLKVPSGQONADVQKTDN
4517	12568	A	5417	15	209	KASRKMQIETTLRYYLSPMRLAKMQML INTSCW/RKSQETRTLIC*W*EGKMVQPL SKGIWPYLIQ
4518	12569	A	5418	1	498	VQTRQLVTSPSPMSSSD/EQSSSPQCTV PSKLLVDPLQHEFSKCGENDNNIPTPSNS NTPLKHSASFISATGTTEESRSVPQIKNGS VVSLQSPGSRSSSAGGTSAVEVKVEPETS SDEHPVQCQENSDEAKAPQTPSALLGQK SNTDGAHQKPSNEGVIKATK
4519	12570	A	5419	8	299	
4520	12571	A	542	1	518	MAVARLAAVAAVVPCRSWGWAAPF GPHRGLSVLLARIPQAPRWLPDLNLA YKKLKKGKSPGIIIPGYLSYMGTKALAI EEFCKSLGHACIRFDYSGVGSSDGNSEES TLGKWRK\NVLSIIDDLVDGPQILVGSSL GGWMLHAAIARPEKVVALIGVATRCR YLSKDV
4521	12572	A	5420	1	3788	MMRLEGAEPGQLQNIDEEVISSACRLV CEWAQKVLSPFPDVTLELARFLVKSHYI GTKSMAALTVMMAAPAGMKGITQPSAF IPTAESNSFQPVKTLPSIDAKQQLQRKI QKKQEQKLQSPLPGESAACKSESATSN GVTNLPNGNPSILSPQIGIVVAAVPSPI VQTRQLVTSPSPMS/CF*QSSSPQCTG GHSAAVAVCETGKDSPESSQSWWGSF CPAPLPSDLTQTEHQCTPIRSPITVL
4522	12573	A	5421	288	668	VEKRQFLNSTADPECIRYPLTYFVLGQSL ALVTKAGVQWRNLSSLQPPPEKRFSC LSLLSSWDE/RHAPPCPS*F/CVFFLVKTG FHRVSQDGLDLLTSNDPPTSASQSAGITG VTLAPSLFVLIH
4523	12574	A	5422	3	288	STFFFFFK*NLARLSRLECHGTISAHCNFR LLGSSDSPALASQVA/GLRGTCCHT*LIF VPTVETGFRHVGQAGLELLAWVICPP*P PKVLRLOA
4524	12575	A	5423	1	781	MVHITGLCADNLQYQAGARIISVPEEDN SKSLENIFGGIIEENFPSLARDLDIQIEAQ GTPGKCITKRSSPRHIVIRLFKVKTKERIL RAVRQKHQVTVYRGKPIRLTADFSEETLR ARRDWGHIFSFLKQNDYQPRILYAAKLS IIEGKIQSYSDKQMLREFTITNGKLLKG AVSLVVALNR*NKSWKHKTHQNRTSLK HKSHRTYKTKIPLHDEYNDLRSALRPAS HTAYGSMMLMKSSLTFLKHGDEVVGRR AK

4525	12576	A	5424	2	392	KTKIIQMANKHRKRH\QSQ**VRLMQKKI IMIHHYIPQWLKTSKSDMIKCCSGYGTTE IFTHYLWECKLLHLLWRMVWL\LLKFK TDTPHDPAPLLGTYPACACTCTPKAHT AALSIIVPSWEQPKYPQ
4526	12577	A	5425	1	181	
4527	12578	A	5426	1	2162	MALFVRLALALALALGPAATLAGPAKS PYQLVLQHSRLRGRQHGPNCVAVQKVI GTNRKYFTNCKQWYQRKICGKSTALGT ADVKGVSSLAVSVSDLGGEQMRKLRPR EMMKLAEDGPAALPLSNLYETLGVVGS TTTQLYTDRETEKLRPEME/GGPGSFTIFA P\SNEA\WAP\PAEVAGTPLVSNVNIELL NALRYHVMVGRRVLTDELKHGMITLTSM YQNSNIQIHHYPN\GIVTVNCARLLKADH HATNGVVHLIDKVISTITNNIQIIEIDTF ETLRLA\VAASGLNTMLEGNGQYTLLAP TNEAFEKIPSETLNRILGDPEALRDLLNN HIL/RSQAMCAESIVAGLSVETLEGTILE VGCSGDMLTINGKAIISNKDILATNGV\H \YIDELLIPD\SAKTLFELAAESDVSTAIDL FRQAGLGNVHLSGSE\RLTLLG\PLNSVF KDGNP\PID\ALTRDLLWNH\KDQLASK YLYHGQTLETLGGKK\LRV\FVYRNSLCIE NSCIAA\HDKRGYGT\FTMDRV\ATPP MGTVM\MDVLKGDNRFSMLVAAIQSAGLT \ETLNREGVYTVFAPTNEAFRALPPRERS RLLGDAKELANILKYHIGD\ELVSGGIGA LVRLKSLQGDKLVSSA*KTNVSVVNKE P\VAEPDIMATNGV\HVMTN\VLQPPAN RPQER\GIDLADFAV\EIFKQAFSVFPGAS Q\RSVRLAPVYQKYL\ERMKH
4528	12579	A	5427	1	410	FFFLKRRDLAVAQTGVQWGDHGSLOPQ IPGRRQSSDLSFLNS*DHRHILSCSATFTS F*RSHSAAQAGLEILATSNPPA*ASQGPPI *GVSHHTWQKATFCICLPANNILSCLNIY SFFYHKTNHNFIMKTNHKQI
4529	12580	A	5428	3	404	RLFYNFTIEMRFSLVQGC/INSLG*SDL LVFASASAGIT\GVSYPHALASIVFVCVC V*WGSALVAQAGVQ*RNLSLQPLPPEF KQFSFLSLPSSWIYRHPPPLSFYLPKLKS CGLCTGIWAWRLFIFIGS
4530	12581	A	5429	2	240	TRSAVV*SQLTAALTS\VKLSQLSLPR SWDYTHVPPCLSIFYFL*R*GLPMLPGLV SNSWTQAIFLPQPPKVLGLQA
4531	12582	A	543	3	604	VMSWAFTFIHSLTDSPRATSSPPSPIHE GDQDIIVLKFLKVLGGKNSGAWGRNGR PQGRRRGARVLRNLVGGCIYTARRESLC RFKDSMLASMFSGRFPLKTDESGACVID RDGRLFKYLLDYHGEVQIPTDEQTRIAL QEEADYFGIPYPYSLSDHLANEMETY/CF KALTDFCDSYGLVCNKPTVWVLHYLNT SGAS
4532	12583	A	5430	3	468	RWSFTLVAQAGVQRVILAHQAQPPPPGFK RFSCSLPSS/WDYRLAPPRLANF*FLVE TGFLHVQAGLELPTSGDPPASASQSARI IGVPLCPGISRIFVQQMALED RDSISLRL WFLSRHANLQCVTLWACQLPCGTWR ARETKANTLPAVP
4533	12584	B	5431	151	344	YENESALNLYETCKVRTVKAGTLEKLVE HLVPAPFQGSLSYVTIFLCTYRAFTTTQQ VLDLLFKS*
4534	12585	A	5432	1	439	PSASSGQAGGFWSQSLFKQESSGFVRTS AESVLRQESLRGVLGVLELYWRGSEVC GSRQSLYGLSSGRGILQGPQEHPSPLCP SPPELKIPENANVFYAMNSTANYDFVLK KRTFTKGVKVKHGASFTLPRMKQKGLK IAKGIF

4535	12586	A	5433	77	444	GLGVPSELQEIRVLPLTVCPSSVPPQYEN ESALNLYETCKVRTVKAGTLEKLV EHLV PAFQGS DLSYVTIFLCTYRAFSASQQVLD LLFKR*A*ALHCTGCTRGPRPHPLAAG LGNAESPL
4536	12587	A	5434	1	3190	MVQRMWAEAAAGPAGGAEP LFP GSRRSR SVWDAVRLEVGVDPDSCPVLHSFTQLDP DLPRPEVGGGRGLLQKSASRVGSGGCRR APSN SRDHGWGFAPLNTVPGPAVTKAA AAQVDLFLRHCPCLHRWPVPYFTQFP ARSASLAFTMQAVGLCSRQSVPYLGNRL HRCIPCTVARQALDVPAPGCALSSQSST QEIGEELINGVIYSISLRKVQLHPAGNKG QRWLG YENESALNLYETCKVRTVKAGT LEK
4537	12588	A	5435	1	435	EKINKIRWLPQQA AHFLGTNDKAIKL WKISERDKKAEGYNLKD EDGRLRDPFRI TALRVPIKPM DLMVEASPRRIFANAHT YHINSISVNSDHETP NIVDIK PANMEELT EVITAAEFHPHCNVFVYSSSKGTIRLCD MR
4538	12589	A	5436	204	397	VPILKPMGSYG*EASPRRIFANAHTYH NSISVNSDHET YLSADDLRINLWHLEIT DRSFNIV
4539	12590	A	5437	1	1463	PLRSWLPRLPDSQADIISTVEFNYS GDLL AT/GDKGGRV VIFQREQEVL AQPRPAL P*SVSSFLSTSCREVWQGEFSLPFRERIK /GRPHSRGEYNVYS/TAFQSHGTGGFDYL KSLEIEEKINKIRWLPQQA AHFLSTND KTIKLWKISERDKKAEGYNLKD EDGRLR DPFRITALRVPIKPM DLMVEASPRRIFA NAHTYHINSISVNSDHET YLSAR*PGGIN LWHLGNHR*EAFNIVDIK PANMEELTE VITAAEFHPHCNVFVYSSSKGTIRLCD MRSSALCDRHS/KSFFEEPDPK/SSRSFF SÆIISISDVKF\SHSGRYMMTRGLPVR WKVWG PSTWEEAGPVGGPTRVHEYIAR TKL\CSLA YENDCIFDKFECCWNG\SDSA IMTGSYNNFFRMFDRDTRRDVTL EASR ESSKPRASLKPRKVCTGGKRRKDEISVD SLDFN\KKILHTAWHPVGQCYLPWLATN NLYIFQDKIN
4540	12591	A	5438	3	392	FCACFIGSKTPASCRAQGRPGEFSPGSP SGPAGGKGV LKEPSEM/PP/PEAGERK LERKTVPGRGAEYGPPLRLSYPAVNS HPLPSSVNGGDSNNSSQLPESHCPPFSP KEGPRKGEVPCLHATRA
4541	12592	A	5439	1	297	SLLGPPEPTTWT/PAPQDR*HGPC*GR*R KRRPSL*T*QWELASPP/REPMFVPKKEM VAIQPLQEEASVGPTPELLSGSCRSPISGI SILGNCPSLAPLT
4542	12593	A	544	3	533	AEGDQDIIVLKFLKVLGGKNSGAWGRN GRPQGRRRGAR\FLRLNVGGCIYTARRE SLCRFKDYNVASMFGSRFPLQTD ESGAC VIDRDGRLFKYLLHYPSWRSS EFPQMRD TRGRPTGKRADYFGIPYPYSLSDHLANE METYSLRSNIELKKALTD FCD SYGLVCN KPTVWVLHYP
4543	12594	A	5440	3	11	HELILSPGPTQGQTPDEAGVIIRVLKNVP DLAILNSKDALDPRQPGYQPPNHPGPSS PPAAPRPRGA*GNPQLENASRSDRNPSQ GLRTRIRRPETPD CGPPSPAGSS\ PAPP DVPPAFHSSGPPEPTTWT/PAPQDR*HGP *GDKRGAPGVAGEDPDQP*GTS

4544	12595	A	5443	1	702	MVAASAAIKFKTNMSLAIAIAGEHVEFA LIPVTAVKYTYTVIPALVMTWCLSYIER WVDSITPAVTKNFLKPMILIVLIAAPLAIL LIGPIGIWIGSAISALVYTIHGYLGWLSVA IMGALWPLLVMTGMHRVFTPTIIQTIAET GKEGMVMPSEIGANLSLGGSSLAVAWK TKNPELHLDTPHTESPTPHDSNSHRP/PT AGVYNRSKAKSTDKDNDQTRWGNWR WSQRKYCLPL
4545	12596	A	5444	195	524	RALTPRHLPCTSQVASCNLCCLFLADLD TLAHTESPTPHDSNSHRP/PTAGVYNRSK AKSTDKDNDQTRWGNWRWSQRKYCLP LIVLSFFQTKQNTGTGFRNFLSPFLMYV
4546	12597	A	5445	2	884	VPQFKPKLHQENGPLARCDHQQGAQP TRETWLQDRDREFQSQTFLLRSRV*LV LQLQESQHSLERLREGQRLVEREQARMR AQQSLGHWKHGRQSLPAVLLPGGPE VMELNRSESLCHENSFFINEALVQMSFN TFTKLNPSVIHQDATYPTTQSHSDLVRTS EHQVDLKVDPS/QPSNVSHKLWTAAGSG HQILPFHESKSDCKNDLDTSHTESPTPH DSNSHRP/PTAGVYNRSKAKSTDKDNDQ TRWGNWRWSQRKYCLPLIVLSFFQTKQ NTGTGFRNFLSPFLMYV
4547	12598	A	5446	269	483	
4548	12599	C	5447	5465	5719	MRLGKTHSTAGAWKMGLLRQADSTRG EKRGGKKAIIICVKSPPGYQVAVWVKY HSSLGVFEFKKTCVSMGRHDTEKKMS WERP*
4549	12600	A	5448	57	102	
4550	12601	A	5449	3	287	RALYYFL*FALFGLT*M*LVS*KLQIIEYE KKQTLGQNDTGFICDGTANTFRVMFKEP IEILPNVCYTACATLKVRVMHYVPDGL LNVAECVF
4551	12602	A	545	1492	1672	KQWHESHDPDYDRSPSQTGEGDEPCSWH RLFAQGDK*YEATACHRNLDWQKATDI SCNTNG
4552	12603	A	5450	1	594	
4553	12604	A	5451	1	768	SVEFPCRLSGAVVRWAAEACQRQQLPV TFGNKQKVLGKALSIRFPLMTIEEFAAG PAQSGILSDREVNLFLHFTVNPKEPRVEY IDRPRCCLRGKECCINRFQQVESRWSYS GTSDRIRFTANRRTSIVGLGLYGSVIHGP TDYQVNIQIIEYEKKQTLGQNDTGFSCD GTANTFRVMFKEPIELPNVCYTACATLA KGPDSHYGHKRI*RKVVHGGHLLASKD CFFLF*F/ALGINNGTSIEDGOIPEIIFYT
4554	12605	A	546	138	257	IFLLYLKNKVQNK*EIKQHFLGKIMSRDN NTYLTWGTEN
4555	12606	A	5460	69	418	LKSKLSDYKINL/QKSVTFVYTNSN*SEK/ QFKKEIQFTNSCKDN*KNYLGINVIKEVK /DLYN/ENY*ILIKNEKNPKK/WRAIPCSW FGRINIVNKFILPKVGYSNAIPMKMPV TSRTRG
4556	12607	A	5461	2	216	YLFYIYLLPRLKCSGVITAHCSLYLPGSKY PPHSAS*VAGITGPATMSS*YF*FFVETR FFLCSPGWS*GSSSDPASASQSIVKIGVS HCTCPRNFRNRLAQSLHFTGEETVPRKK GDLPWVYRQTQG*IPGPHRCQVLAF*PK DFLLSPHIYVSTSILWPPPA*AQAQEVQWC DHSSLQPLPPRFKISSPLSLSSWNHRSCH HVQLIFLIFCRDKVLPVFPRLVLRLEQ
4557	12608	A	5462	59	403	KRGFNFGAPDKREWGEGF*LKPWLPG* NNFSGQTLRRSGD*RKTPHGGVNLVF*E KTGFSNLGRGGLKPPPSGNTPAWPPKGV GITGGASSPPVFCFLGFCENTNLRAKKK FI
4558	12609	A	5463	1	242	

4559	12610	A	5464	15	276	ASVTQAGVQWHNLGSLQPPPPRFKQFSC LSLPSSWDYRRPPPCPTNFLFLVLARMV SIS*PHDPPASASRSAEITGVNHHARPGLF L
4560	12611	A	5465	2	309	EQKFNKQKGRRALRCRGGLSGLLSCSK DVKVSFFSVARLQCSGLILAHCNLHLPGL SDSPASAS*VVGTPGQRHHAQLGFVFLV EMGFHHVGPGMVFDLLTSG
4561	12612	A	5466	1	1209	GGIPALDKNVAELTVMDVYDILSLVGHE VERVIDQHGCIAIARLMPKVVRVLEILE VLVSRHHVAPELDELRLLELAPLRVRVM DLIEKERKHQKELELVEDVWRGEAODL LSQIAQLQEENKQLMTNLSHKDVNFSEE EFQKHEGMSERERQVMKKLKEVVDKQ RDEIRAKDRELGLKNEDVEALQQQQTRL MKINHDLRHRVTVEAQGKALIEQKVE LEADLQKEQEMGSLRAELGKLRLERLQ GEHSQNGEEEPETEPVGEESISDAEKVA MDLKDPNRPRTLQELRDVLHERNELKS KVFLQEEELGLL*E*RNCRGKPNTPPTH RPPEDGPPSRESGIKATCLASFFPEVKKR LGQTHRGNVHIQGVPLDKLGKHTAMT GYTEQRTGSPCSIC
4562	12613	A	5467	1	388	FKDPEAVRALTCTLLREDFGLSIDIPLERL IPTVPLRLNYIHVVEDLIGHQDSDKSTLR RGIDIGTGASCIYPLLGLATLNGWYFLATE VDDMCFNYAKKNVEQNNLSDLIKVVKV PQKTLMDALKGSI*V*SMTFCMCNPPF FANQIGSQVE*/YSRNPRRPPSSVNTGGI TEIMAEGGELEFVKRIIHDLSLQKKRLRI DMAALLIGVCSEVSGRKDWIQQAPRW YSCMLGKKCSLAPLKEELRIQGVPKVTY TEFCQGRMTMRWALAWSFYDDVTVPVHE GRLAVGGVTSDSQNKGSASPPSKRRKLE KPRKPITFVVLASVMKELSLKASPLRSET AEGIVVTTWIEKILTDLKASINEFPVEK RKSAFS*RP*KTPGFI*GERKESV*DSDKS TLRRGIDIGTGASCIYPLLGLATLNGWYFL ATEVDDMCFNYAKKNVEQNNLSDLIKV VKVPQKTLMDALKGSI
4563	12614	A	5468	72	680	LEPRPQSLEGHTEGERAALPGKAKVVE GRVADDGVPGQPAWPGAPHTAAFQPV HALGSTRASQQGSLGDC*ACR*Q*KAP *VPKQGT*QERSSTK/PRAVPSGHWAGG SGCRCSE*RAALG*TTEPQQSGELGPPW PLEGAAHPLSAETGSCVPPRAFSGQGKQ PRGPG*AAEGPHGDFPQTGDRHCPSSTE PSGMTGR
4564	12615	A	5469	259	373	
4565	12616	A	547	5	960	PTFSRAVATMFSRAGVAGLSAWTLQPQ WIQVRNMATLKDITRRLKSIKNIQKITKS MKMVAAAKYARAERELKPARIYGLGSL ALYEKADIKGPEDKKKHLIGVSSDRGL CGAIHSSIAKQMKSEVATLTAAGKEVML VGIGDKIRGILYRTHSDQFLVAFKEVGRK PPTFGDASVIALELLNSGYEFDEGSIIFNK FRSVISYKTEEKPIFSLNTVASC*QHGV YDDIDADVAAKITQEYNLANIYYSLKE STTSEQSAVMTAMDNAKNASEMIDKVL TLTFNRTRQAVITKELIEHSGAASSVKKE NSAS
4566	12617	A	5470	1	336	

4567	12618	A	5471	1	1396	GAHAPHPNVMPASMGSAVNDAKRDK DAIYGHPLFLLALVFEKCELATCTPREP GVAGGDVCSDFSFNEDIAVFAKQVRAE KPLFSSNPELDNLMIQAIQVLRFHLELE KGHELCDNFCHR YISCLKGKMPIDLVID ERDGS SKSDHEELSGSSTNLADHNPSSW RDHDDATSTHSAGTPGPSSGGHASQSGD NSSEQGDGLDNSVASPGTGDDDDDPDKD KKRQKKRGILPIVFPNIMRAWLFQHLTH PYPSEEQNIQLAHDGTGLTIFQVNNWFIN ARIGIVQPMIDQSNRAGFLDPVSQGA YSPEGQPMGSFVLDGQQHMGVIRPAGTY EWDGA*IWAWMGNGTTC*PSSC*RHSQ SKGEVCRAWPGDYVSQGGPMGMSMAQ PSYTPPQMTPHPTQLRHGTPNAFHILPSL PHHPGLD*LHGGTPYPTWD*LC*AQSPT MLNSVDPNVGGQVMDIHAQ
4568	12619	A	5472	3	862	TMRPDIDNSQAAHQPPGRLPNRKLKKT RRQMCCVQTKKRIARLPPCCRNPTTAR SHPGRDCAKPN*SLRSPGGDCH*QGNT TWRMPMAR*LSGDSSEGRSPVRTIICHQP SRSQSPVDRLQQLLPASQSTQLPCSSSQ ETTQSRMPPEARRLIVKNAGETLLQR SARLGYEGSVLYCLENKICDVNHRDNA GYCALHEACARGWLAKFVRHLLLEYGAD VNCSAQDGTPLHDAVENDHLEIVRLLL SYGADPTLATYSGRTIMKMTSELMEKF LTDLFK
4569	12620	A	5473	1	444	KLLRWLRQENCLNLGGGSCSELKSHHC TPPWMIEGDSI*KKQNKTKTRKRKPQGS HS/TLSGGPDWV*QNCEVSQVLPISHFPL LQDILPPLPYLGANGQAGEQGATDGH*/R TTTESHRA SVGCRIPWLCQRPLALALSFF LCEMRTIP
4570	12621	A	5474	2	330	EMSFALVAQAGVQRHNLGSLPLPPGFK *FSCLSLPSWDYRYAPPTPANFAFLVE TGCLHVGGAGLKLPSGNLPTSASESAG IIGVSHCAQPGTATHSNTVLSGLFC
4571	12622	A	5475	2	363	ELDTLCDLYEP*PSPSIIFINTRRK/VDWLT EKM HARDFTVSAMHGDMQKERVIM REFRSGSSRVLITTDLRIGRGGFRGRKG VAINMVTEEDKRTLRIETFYNTSIEEMP LNVADLI
4572	12623	A	5476	112	434	ARGIDVQQVSLVINYLPTNRENYIHR*A *IWNTPPLHTWPSLGLKLLIFLPLVFQ IGRGGFRGRKGVAINMVTEEDKRTLRI ETFYNTSIEEMPLNVADLI
4573	12624	A	5477	3	724	NSNVEREEWKLDTLCDLYETLTITQAVIF INTRRKVDWLTEKM HARDFTVSAMHGD MDQKERVIMREFRSGSSRVLITTDLL/A E*RELIKAEGRIQGDLSKGTSPVLRKV AAWNIIWHA*GLWGTGMLISSAFLGCPH GCLSVFPPG*SVLRAHAEELSFLTHARGI DVQQVSLVINYLPTNRENYIHRIGRGG RFRGRKGVAINMVTEEDKRTLRIETFYNT TSIEEMPLNVADLI

4574	12625	A	5478	1	1274	MSASQDSRSDNGPDGMEPEGVIESNW NEIVDSFDDMNLSESLLRGIYAYGFEKPS AIQQRAILPCIKGYDVIAQAQSGTGKTAT FAISILQQIELDLKATQALVLAPTRELAQ QIQKVVMALGDYMGASCHACIGGTNR AEVQKLQMEAPHINVGTPGRVFDMLYR K/YTLPSPKYTKMFVLDEADEMLSRGFKG QIYDISKRLNSTTKVVLSSATMPFDVL EVTKKFMRGPPFRILVKKEELTLEGIRQF YINVEPEEFNLDTLCDLYENLDHHPRO VIFHQPPGGKVDW/LSPEKMHARDFTV SAMHWRFWTQKERRT*L*REFRSGS*PE F*ITPLTLPAQRAFDVASRVSF*SFKLMTL PPPTRGKLLIHRIGSRVDRFGRKGVPINM LTE/EKTKRNLEDIETFYNTSNEEMPLNV A
4575	12626	C	5479	114	302	MKEEILKKTAELYKRAMXNKXKQKHHS WVXKAPSRPFIKWETRLGLKTAHSPNVF LQQGQR**
4576	12627	A	548	1326	1780	YLSKLPYFELESIAAARSRPTAQRHPRER KLKPARIYGLGSLALYEKADIKGPEDKK KHLIGVSSDRGLCGAIHSSIAKQMKSEV ATLTAAGKEVMLVGIGDKIRGILYRTHS DQFLVAFKEVGRKPPTFGDASVIALELL NSGYEFDEG
4577	12628	A	5480	1	2043	
4578	12629	A	5481	153	332	QTFVLAEGKH*ENE/PVFKLNVSPLEW REGAFPPKSDVSASFISIALYNSAASFSS PPS
4579	12630	A	5482	2	904	HILLVNLKHLQLCTRNRKNIFKLFHFRKK SFMGHQRAIKKGNLYGFALLRRRALQ VEELTLGKDTPDNARTLNELGGLYYLQN NLETADQVLKRF*MRERVLPDHPDC AQALNNGAGSYAMKKNQYDKPEDLYK RALDIGRRALAPDHPFLAYTVKHLAILY KKMGKLDKAVPLYELAVEIRQKSFGPK HPSVATALVNLAVALYSQMCKHVEALPL YERALKIYEDSLGRMHPRVGETLKNLAV LSYEGGDFEKAALYKRAMIKEAETSL LGGKAPSRHSSSGDTFSLKNQLHFS
4580	12631	A	5483	2	331	PGQHGETLPLKIQKLAGQGGSLS*SEPL RRLRQENCLNLGGRGCSETRSCHCTLV WVTGRDSISKQKTAVDQAEERVSELEDR LFENTQSEKTEKRIKISTLRGFRK
4581	12632	A	5484	26	117	AKGQVALGRPGARMQGGSKVVGVLG PGSRSEAGTVPSYPAAQTRPHPPQPLLIF RSPGVVPNGHQGPPNSTASSKQCNLRC WGLPTVARHPKSGQRQP/PRPTR*PGPSP QGPTPGRKNPERP*LVQQ*PCWAREPV
4582	12633	A	5485	111	270	
4583	12634	A	5486	240	406	
4584	12635	A	5487	128	657	ESESYWAICSRKRSPVLSSYGHHYLRKIR CPVDS\SVGRRGFLTIFEDVSGFGAWHR RWCVLSGDCISYWAYPDDEKRKNPIGRI NLANCTSRQIEPANREFCARRNTFELITV RPQREDDRETLSQCRDTLCVTKNWS ADTKEERDLWMQKLNQVLVDIRLWQPD ACYEPIGKP

4585	12636	A	5488	1076	3513	IKALSSSAEDASLVNASISSSVKATSPVKST TTSITDAKSCEGQNPPELLPKTPISPLKTGV SKPIVKSTLSQTVPSKGELSREICLQSQSK DKSTTPGGTGKIPFLERFGERCQEHSKES PARSTPHRTPIITPNTKAIQERLKFQDTSS STTHLAQQLKQERQKELACLGRGFDKG NIWSAEKGGNSKSKQLETKQETHCQSTP LKKHQGVSKTQSLPVTEKVTENQIPAKN SSTEPKEVIREIEMSVDDEINSSKVINDL FSDVLEEGELDMEKSQ/AGDGSSISR/TA AKNRKMH*ISPOCLYLHHWHKQLV*V* CPHLDWN*KTPAEVMKVQNQENSKELV S/RRAESGDSLGSSEDRDLLYRSQRFKETE RPSIKQVIVRKEDVTSKLDEKNNAFPCQ VNIKQKMQELNNEINMQQTVIYQASQAL NCCVDEEHGKGSLEEAEERLLLIATGK RTLLIDELNKLKNEGPQRKN*G*/APSEF IAIPKDQFTLSEIRLP*KADFVCSTVQKPD AANYYYLILKSRSENMVATPLASTSNS LNGDALFTTTFTLQDVSNDFEINIEVYS LVQKKDPSGLDKKKKTSKSKKSNHSSV MASPGGLSAVRTSNFALVGSYTLSSSV GNTKFVLDKVPFLSSLEGHIYKIKCQVN SSVEERGFLGCPGGRLQPKRQTIFEDVS GFGAWHRRWCVLSGNCISYWTYPDDEK RKNPIGRINLANCTSRQIEPANREFCARR NTFELITVRPQREDDRETLVATNAGTHSV FTKNWLSADTKEERDLWMQKLNQVLC DIRLWQPDACYKPIGKP
4586	12637	C	5489	135	206	MFIFAFGKSIFKITTTFQSTIVG*
4587	12638	A	549	20	403	KVQGPASAHASGEGSLTIIPVTRSPLAT MNHIVQTFSPVNSGQPPNYEMLKEQEG AMLGAPHNPAPPMSTVIHIRSETSVPDH VVWSLFTLMTGCLGLITFVYSVKA\ RDRKMGRRTRPGAQG
4588	12639	A	5490	67	388	DAVFA/GAMPTMASVKLSTLHPIVNHPI YEDADLRPGCSMLEIWDVEDPSNAANPP LRSILLEDAR/PKMPVFQNSVYRVLKVN* EGNYPLHYGTMPCKNNHPLAYLH
4589	12640	A	5491	3	107	SIKLSTLHPIVNHQHYEDADLRARTKIV YSTYSRTSAKEVRDKLLELHVNYVLEE AWCVVVRTKFIQDGPVLAQAEK*COM VTQIYKKYSNALEMPCGCSMLEIWDVED PSNAANPLCSVLLEDARPYFTTVFQNS VYKVLKVN*EDADLRARTKIVYSTYSR
4590	12641	A	5492	3	289	YYLSPPEMGAIFEDPAHVVVYIIFMLGS CAFFSKTWIEVSGSSAKDVAKQLKEQQ MVMRGHRDTSMVHELNRPKVKLRWK GEGRHFTKRILFY
4591	12642	A	5493	2	652	RVDLPIKSARYRGQYSSYPIKLFYTSNIPI LQSALVSNLYVISQMLSVRFSGNFLVNL LGQWADVSGGGPARSYVGGLCYYLSP PESMGAIFEDPVHVVVYIIFMFGCAFFS KTWIEVSGSSAKDVS*TA*KEQQMV/MR GHRDTSMFHELNRYIPTAAAFGGLCIGA LSVLADFLGAIGSGTGILLAVTIIYQYFEI FVKEQAEVGGMGALFF
4592	12643	A	5494	58	596	KFIFRDGGSLLCCPSWT*TLGLQQSSHMSL PSDWDSRVRA TKPNFPFSS*HSFALYIM HLPRSPLNFIQPCRIFYKGPAGLSRGGRE* HGL*SDFSVANLWQLGFLWQALTDYRA ELPGMDPIISTHLAKLYDNLLEQNLIRVIE PFSRVQVRTLWGLHFWPGILTVATSLPH LSRMGTHF

4593	12644	A	5495	2	951	PRVVRPRVRPRVRSSRPSRDPSPRRARLR WQLRWKPRWCPRPPKTPGVWKRPRTRP RSSAGGSTGFPSSPILRRSPSTRRSSRKA SPTATRATGTPPRQAQRKTARAAGRRA SPGIATAGTRSMISMMPGRKPSNPWEG RTNEETSSLSRLKPVSPGTTICPLRTPGSL LKDSKIPISIKHLTNLPSSHPVVHQPSRS EMPRTKIPVSKVLVRRVSNRGLAGTTIR ATACHDSAQKVVRSSRPRWMGPMRNT TFPWETTKVSFAFPKESLL/WTPPVPRPA PERGPRRSLCPE*GPDNTRKRDRATRGFLL SR
4594	12645	A	5496	1	279	VQWHDLG*PQPPPGFKRFSCLTTPP/RSS CDHRCPPTPD*FLCFLVETGFHYVGQA GLELLTSGDPPTLASQSAGIAGVSHHARP NFLIFFFN
4595	12646	A	5497	2	291	FLVARVAGSGGDGLTLFPRLECTSVITAP ASISWAQGDLPASASQVAQTAGACHHS WPVFTSCVEMGFPCVP*AGLELLGSSPP PQPPKMFRLQA
4596	12647	A	5498	2	345	SHSVAQIGVQWRDLGSLQSPPGFKRFS CLSLPSS*DYRHAPVHPANFFVLVEMWL PRVSQDGLDLLTS\DLPSASQSTGITGM SHRARNFCIFSRDRVSPCWPVWSQTPD LR
4597	12648	A	5499	2	311	QVLENPHFPRG*APPPSW*YPSGFYKSNR PRACFNPRSLAPRGPHQGFFFPGL/FPP PPFLGPPYGSRRFPSEHFQKVQPLNQPPF LSLKNPP*RFPPFFP
4598	12649	A	55	730	950	SFLKDIGLFKIIYFFFFFETGVSFCHPRLE CSGETMAHCASLTSLGPGDPPTSAS*QAG ITGVHHHARLIFF
4599	12650	A	550	2	431	DAWAMNHTVQTFSPVNSGQPPNYEM LKEEHRVGCAGAAPTLFPPTSTLIHNRQ RDLPCPTHVWVSLFNT\LFMNP\CCLGFQ *EFAYSVKSMRKMVGDTVGAQAYAS TAKCLNIW\ALIL\ALMTILLIVPVLIFQA YG
4600	12651	A	5500	1	2500	MEDAWGIRKETGRVKEEAKEKVTGWGN NWRNVEKSSMSRKVKAARPGFKKLPM SDIPPCKTIKDLLPKEKSSTEAVFHTVVL ERHESPDIEDFSFKEPQKNVHDFECQWR DDTGNYKGVLMAQKEGKRDQRDRDIE NKLMMNQLGVSFHSHLPELQLFQGEK MYECNQVEKSTNNGSSVSPLQQIPSSVQ THRSKKYHELNHFSLLTQRRKANSCGKP YKCNECGKAFTQNSNLTSHRRIHSGEKP YKCSECGKTFTVRSNLTIHQVIHTGEKPY KCHECGKVRHNSYLATHRRRIHTGEKPY KCNECGKAFRGHSNLTTHQLIHTGEKPF KCNECGKLFTQNSHLISHWRIHTGEKPY KCNECGKAFSVRSSLAIHQTIHTGEKPYK CNECGKVFRYNSYLGRHRRVHTGEKPY KCNECGKAFSMHSNLATHQVIHTGTGKPF KCNECS\QVFTQNSQLANHRRRIHTGEK YKCNECGKAFSVRSSLTTHQAIHSGEKP YKCIECGKSFTQKSHLRSHRGIHSGEKPY KCNECGKVFAQTSQLARHWRVHTGEKPY YKCNDCCGRAFSRSSLTFHQAIHTGEKPY YKCNECGKVRHNSYLATHRRRIHTGEKPY YKCNECGKAFSMHSNLTTHKVIHTGEKPY YKCNCQCGKVFIQNSHLANHQRTHTGEK PYRCNECGKAFSVRSSLTTHQAIHTGKK PYRCNECGKVFTQNAHLANHRRRIHTGD KPYRCNECGKAFRRQGVTPGPSLECNGT ILAYSSLKFVGSSDTHISLLRSQDDRQVL PHLANPNFREGLLPAFLLLCSDSHFLQFC SQFAPRKTQGGSGSVNNIQANIIAK

4601	12652	A	5501	1	2508	MPHQLGPNLVPDIPPKCTIKDLLPKEKSS TEAVFHTVVLERHESPDIEDFSFKEPQKN VHDFECQWRDDTGNKGVLMQAQKEGK RDQRDRRDIEKLMNNQLGVSFHSHLPE LQLFQGEKMYECNQVEKSTNNGSSVS PLQQIPSSVQTHRSKKYHELNHFSLLTQR RKANSCGKPYKCNECGKAFTQNSNLTS HRRHSGEKPYKCSECCKTFTVRSNLTH QVIHTGEKPYKCCECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFRGHSNLTH QLIHTGEKPFKCNECGKLTQNSHLISHW RIHTGEKPYKCNECGKAFSVRSSLAIHQ IHTGEKPYKCNECGKVFRYNSYLGRHRR VHTGEKPYKCNECGKAFSMHSNLATHQ VIHTGKPFKCNECSKVFTQNSQLANHR RIHTGEKPYKCNECGKAFSVRSSLTHQ AIHSGEKPYKCIECGKSFTQKSHLRSHRG IHSGEKPYKCNECGKVFAQTSQARHW RVHTGEKPYKCNDGCGRAFSRSSLTFHQ AIHTGEKPYKCCECGKVFRHNSYLATHR RIHTGEKPYKCNECGKAFSMHSNLTHK VIHTGEKPYKCNCQCGKVFTQNSHLANH QRTHTGEKPYRCNECGKAFSVRSSLTH QAIHTGKPYKCNECGKVFTQNAHLAN HRRHTGEKPYRCNECGKAFRVRSSLTT HMAHTGEKRYKCNECGKVFRQSSNLA SHHRMHTGEKPYKNECGEVIRYNSLLSH QLIHS*QNPYKCSDSGQSLMS*SINRYER P*ARD/YHVNICGRGSIQASQVTRHQDFI SLMKRKNKCNMHPEAITQ*PMVSEDS
4602	12653	A	5502	3	361	PKKNYFPLHLKGPKTKGVFFYSSSSSSQK GVSLCNPRWNAVGPFGFPSTPPSLVK*F LCPNPWS*CDFRPPSPRGYFCFFNKKA LLARVVFNS*PQVIPLFQPPKMVGFGQLT PLAG
4603	12654	A	5503	32	392	FLFLSFPPLSFKMTLNDAMRNKARLSITG STGENRRVMTPEFPKAVHAVPFT*SPGH GNGMSSVTESLGGIIRTLALSALPQWFSC VFIVQSGERHPSILEDGFSQPKNSLNMWS SILKL
4604	12655	B	5504	473	524	MGEAKKTGEQVRVLPRTX*
4605	12656	A	5505	1	627	LVSSFFFFFCRDRVSPCCLGWSPTWSPG LKRSARLGLPQCWDSRRELPRPAYLLFL LSWGSPSPSAWQEGG/WCKKKRGTEHPE VPSIPSCTCPSPTVQQ*S/GEKQVQETGRQ S/LGEAKKTGVQWHDQGSQ*SLK*S SYLSFLSS*DHRCAPTPD*FL*R*DPTML PRLVLNSWAQ/CDHPALASQSTGIIGLSH RAWACDQNSHFF
4606	12657	A	5506	3	649	RVSSVMSTSLEEIFNCIFDAHVPLWGKA YPSQKPLAAWTRDLAMRVEQFELWASR ARPPVIFWLSGFTFTGFLTAVLQSSARQ NNVSVDSLSWEFIVSTVE*QAT*VYPPKD GCWVRGLYLEGAGW/DPEELLGGRQS PCKLVWLMPTIHRPAESRKKSPKGMYS CPLYYYPNRAGSSDRASFVIGIDLRSGA MTPDHWIKRGTAALLMSLDS
4607	12658	B	5507	167	377	XKLIQFGLMKNLIRRLQKYPVRVTRREEQ SHPARLYTGCHSYDEICCKTGMSYHELD ERLENDPNIICWK*

4608	12659	A	5508	2	1247	TPLREERGATGLGPVIAMGSGCRICIFFS EFHPTLGPKITQVPEDFISRELFDTVQV YIITKPELQNKLI/VLESSFVSMESKQK LVPIMTILLEELNASGRCTLPIDESNTIHL KVIEQRDPDPVAQEYDVPVFTKDKEDFF NSQWDLTTQQILPYIDGFRHIQKISAEAD VELNLVRIAQNLLYYGVVTLVSILQYSN VYCPTPKVQDLVDDKSLQEACLSYVTK QGHKRASLRDVFQLYCSLSPGTTVRDLI GRHPQQLQHVDERSEENLLGHLGVT*GK LDPLCLSGALDHGALPIQAGFLEMMGYR DKIEGRLQERVGLPERRPGQGVTPSSDP HPRKLIQFGLMKNLIRRLQKYPVRVTRE EQSHPARLYTGCHSYDEICCKTGMSYHE LDERLENDPNIICWK
4609	12660	A	5509	1	512	CTLPIDESNTIH*KVIEQRQTPRVAQEYD VLVFTKDKEDFFNSQWDLTTQQILPYID GFRHIRKISAEADVELNLVRIAQNLLYY GVVTLVSILQYSNVYCPTPKVQDLVDDK SLQEACLSYVTKQGHKRASLRDVFQYD EICCKTGMSYHELDERLENDPNIICWK
4610	12661	A	551	137	838	SSGICSAIWPWPALHLTNARKRKLRLK RNYWRKGESLRTIPVTRSPVMTNHIV QTFSPVNSGQAPNYEMLKEEQEVAML GAPQKPCLPCCPVIHIRSETSVPDHV/V WSLFNTLAFMNTC/CRLGFIAFA\YSSEVS GTRKMVGEVTRAQGLLPPPKCLNIWA\ LILGIFMNQFLINHPPPSVGSSRPSDRSG RHHLRPRELCPVEPVSVQVKSIFHSLALP PEARKEFCP
4611	12662	A	5510	1	474	HTIHLKVIEQRDPDPVAQEYDVPVFTKD KEDFFNSQWDLTTQQILPYIDGFRHIEKIS AEADVELNLVRIAQNLLYYGVVTLVSIL VRKLIQFGLMKNLIRRLQKYPVRVTREEQ SHPARLYTGCHSYDEMCKTGMSYHEL DERLENDPNIICWK
4612	12663	A	5511	199	562	KESPGPGRHPVPLIPHP*ES*IPVRAL*KN LIQATYRKYPVRVTREEVRAHPARLYTG CHSYDEICLQDRWRQAGSQGGFRAGCA RPRPLTSPPPHPGMSYHELDERLENDP NIICWK
4613	12664	A	5512	1	1224	EFGRPLREERGATGLGPVIAMGSGCRIE CFFSEFHTLGPKITQVPEDFISRELFDT VQVYIITKPELQNKLI/VTAMEKKLIGCP VCIEHKKYSRNALLFNLGFVCDAAKTC ALEPIVKKLAGYLTTLLESSFVSMESK QKLVPIMTILLEELNASGRCTLPIDESNTI HLKVIEQRDPDPVAQEYDVPVFTKDKED FFNSQWDLTTQQILPYIDGFRHIQKISAE ADVELNWVRIAQNLLYYGVVTLVSILQ YSNVYCPTPKVQDLVDDKSLQEACLS YVPKQAGHKRASLRDVFQLYCSLSPGTT VRDLIGRPPSSCQHVDKRLAQFGLM KNLIRRLQKYPVRVTREEVRAHPARLY TGCHSYDEICCKTGMSYHELDERLEND PNIICWK
4614	12665	A	5513	2	313	FETESYSVAQAGVQWWDGLSQPPPPGF KRFSCSLSSWDYRRPPRLANF*FLVE TGFHHVQAGLDLLT/S/GDPLASASQSA GITGLSHCAWQTTYITFNHK
4615	12666	A	5514	731	1156	SVLGLISDTSNTFLSFFFFFEMESHSLAQ PLQWHYLGSLQAPPPCKLRLPGSRHSPA SASRVAGTTGARHHARLIFGFLVEAGC HRVSQDSLDTLS*STCLKP/AQSAGITRR EPPTGLFFFLKMESCSVGPRLGVQSW
4616	12667	A	5515	3	365	LLNSRPVDFFFFFFFLSHSL/DSVVQAGV QWHNLGSRLLQSPPPGSMFSCSLSS WDYRHPPPYLANFFFFCIFSRL/MGFTML ARMVSIS*PCDLPALGSQSAGITGVSHHA

						WPAYFYFQ
4617	12668	A	5516	400	619	MPEQICPLETSQS*INNLPKFFFMJSI*CP GERSYFFF*CC
4618	12669	A	5517	274	693	KYQILLYNGDVDMACNFMGDEWVDS LNQ/KGKVEIPGPGIEPAGEEWGAGMPG SGQLAAWLWAHRGQVWRNSQP*GLAG SCEQGCSCCRLMSFLVGQMEVQRRPW VKYGDSGEQIAGFVKEFSHIAFLTIKVGT GPAER
4619	12670	A	5518	3	766	NRLWSSLQTHCCSQNKCNFYDNKDLEC VTNLQEVARI/VGNISGLNIYNLYAPCAG GVPSHFRYEKDTVVVQDLGNIFTRLPLK RMWHQALLRSGDKVRMDPPCTNTTAAS TYLTNPYVRKALNIPEQLPQWDMCNFL VNLQYRVFLPSQNSR\YLLKLSQKYQIL LYNG\DVDMA\CNFMGDEWVDSLQK\ MEVQRRPW\VKYGDSGEQIA\GFVKEF SHIAFLTIKGAGH\MPVTDKPLAAFTMFS RFLNKQPY
4620	12671	A	5519	2	279	FLRDVILL/C/HPGQSVVV*S*LTVSPTELP GSSDPSSAFNCWEYRCVTPCQLMF*FT LLSIGIGSTLPRPVLNSSPVILAPWPAPKV LRLQE
4621	12672	A	552	1	528	
4622	12673	A	5520	2	1045	CPSRPCRRRPPPPRGPKPRASYPGGPAP/P GDKKKRPPQ\GPRGSSPAPGPPVPQAAA GPAPRPPGQDAAAGPSGR\PPQALPSVR GPQPRAPRGRQAPATAQRGPPMRRPRR GRGPPPRAPP\PGAGPC/PRLRCALLPESH PRGRPGHPEASSGEAAAAGAAPQALPLTL GRTQAPTRPVSPG*GRGPAEGRPRQR/PP THPPPPA\GPPRASARRPAAARRPAGSPA QPAARGPAADAQGVAAQRAAQVRRRG VRGGARGGGRGP/RGPRGRP/PGSSGRQR PLSG\PSAQAGPRGAQPDSPDGHGPPPAL ASRQPGFSTFPVVSTPDACLCPHSGLLL ASPSIHAVRGELSN
4623	12674	A	5521	84	202	
4624	12675	A	5522	3	576	ILGFFFFVRWGSHTVAQAGVQWCDHGS LQPRSPGVK*SSHLSLLGSWNHRHATTT PG*FCFFSRIRSHCVAQAGL*LLTSNHPP ALASQTVGITGVSHWTWPNTGFSVLTA TNKNLKFFHYAISKCLVRAKLSSRLKIE ERNKALSAPVVSIFDRVLRLLGYSAS DWQPEFVETAVSNFVIYGIFRGQ
4625	12676	A	5523	177	904	ESHLQNDTAAHPLLNGTECGVSPPLTS RQGVRRRTQSSTSRTC/SPVIPKQTFPQP VLHMSAGVALDSPAPPPRPWQPPQGF AHT*DRKEEGDPIGIWAPEGKCTPKPPP PSLPRTSPGWKRALQKGTGCPGPSTAS TPHPLILGPSQAPPKPKPP/PSPGVPACAP S/YPALPAPISLSTEKEQARAPGGQDGAG HTVGGGGAAGRREGQNKTFSGFFFSFF FLPFTLVVVLFLSFL
4626	12677	A	5524	1	173	FLGPSKFPPGFPPFPFPPPRERGNQRSS PPSSSS/PSQKKTGVPPG*PGGFFPPPP
4627	12678	A	5525	1	390	LILNTRKPAFIDLLHNLDPKQAYADLV SAYTLNSMFWLYLATQGVNPDHPVKH ELDTT/RACMNRSSSPTDKKKAGLLYRG AASKFVKNALWEPKSKNA*KVGNKGKS PTSLFGFDVHIFKKNMLPPP

4628	12679	A	5526	1	1548	MPERDSEPFNSNPLAPDGHVDVDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPSKSR HHEMPREYNEDEDPAARRRKKKSYAK LRQOEIERERELAEKYRGRAKERRDGVN KDYEETELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDMEHHLVKGLD FALLQKVRAEIASKEKEEEEELMEKPQKE TKKDEDPENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYVVKVDCPTMEA QTILTTNDIVISKLTQLLSYLRQGTRNKK LKKKDKGKLEKKPAEADRSIFEDIGDY TPSTIKTPWDKERERYRERERDQ/RDRDR DRERERERDQERERDRERERDRER/GPG SAKELIKSINEKFAGSAGWEGTESLKIAE DKKQLRDFFGMSNSYAECYPATMDDM AVDSDEEVDYSKMDQGNKKRTLSRWD FDTQEDYSEYMNNKEALPKAAFQYGIK MSEGRKTRRFKETNDKAALDCQWKISAI IEKRKKMEADGVEVKRPKY
4629	12680	A	5527	1	3162	
4630	12681	A	5528	2433	2540	
4631	12682	A	5529	1	1739	MPERDSEPFNSNPLAPDGHVDVDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPSKSR HHEMPREYNEDEDPAARRRKKKSYAK LRQOEIERERELAEKYRGRAKERRDGVN KDYEETELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDMEHHLVKGLD FALLQKVRAEIASKEKEEEEELMEKPQKE TKKDEDPENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYVVKVDCPTMEA QTILTTNDIVISKLTQLLSYLRQGTRNKK LKKKDKGKLEKKPAEADMKYVS*PLA SDQREGVCTFLVSGILGRC*HENLEKWS GGVKVYV*IWPAASDLHFSIFEDIGDYVP STTKTPRDKERERYRERERDRERDRDRD RERERERDR*HERERDREREEEKKRHSY FEKPKVILLGPWTFDKGPGSTKELIKSFI EKFAGSAGWEATESLKKPEDKKQLGD FLGMSNSYSECYPATMDDMAVD\SDDE VDYISKMDQGNQEGGP*ARWDL*FPQE EYKRVFVTTKEALPRVAFQYGIKMSVE GRKTRRFKEPQ*PKQSLIRQWKKI
4632	12683	A	553	1	1682	MDNLSDTLKKLKITAVDKTEDSLQGLCD CLLQALAQNNDETSEKIQASGILQLFASL LTPQSSCKAKVANIIAEVAKNEFMRI PCV DAGLISPLVQLNSKDQEVLLQTGRALG NICYDSHSLQAQLINMGVIPTLVKLLGIH CQNAALTEMCLVAFGNLAELESSKEQFA STNIAEELVKLFKKQIEHDKREMIFEVLA PLAENDAIKLQVEAGLVECLLEIVQQK VDSIEKEGGITELKTGSDLMVLLLGDES MQKLFEGGKGSVFQRVLSWIPSNHQL QLAGALAIANFARNDANCIVHMDNGIV EKLMDLLGRHVEDGNVTVQHAALSALR NLAIPVINKAKMLSAGVTEAVLKFLKSE MPPVQFKLLGTLRMLIDAEAAEPIGE RMLKLVERLVGWCEAKDHAGVMGGEQ NRLLSALIRHSSKSDVIKTIVQSGGIKHL VTMATSEHVIMQNEALVALALIAALELG TAEKDLES AKLVQILHRLADERSAPEIK YNSMVLICALMGSECLHKEVDLAFLD VVS KLRS HENKSVRQQASLTEQRLTVES
4633	12684	A	5530	93	546	YNCRPTLGVS GCAGLDAQVVCQDCAFE LGKKP/PSGGEQYPSSSAIKQGPKEPYAD FIARLQESLKKVIADLAAQDIVLWLLAFD NANPECQAALRPIRGKAHLVDYTKVCD GIRDKLHKATLLAQAMAGLRMGKGNT PFGACFNCGKHGH
4634	12685	A	5531	1	541	

4635	12686	A	5532	365	661	
4636	12687	A	5533	3	74	RMGPRTGP*VFPETGFPPLSNLE
4637	12688	A	5534	83	262	CTVTTPPPQDTGQSKS*STRVSSSLVPRSPT VAPVTLRPGFEPP*WTPLAKTSSVLTQW C
4638	12689	A	5535	636	698	
4639	12690	A	5536	125	340	
4640	12691	A	5537	81	1007	QPKAEHAALNLRKTFQHASHTPPFSAQQ *NPHRPHQPWL*HALVQHCSQSDMQRPS ASGP*/PPGTFSRWSSCKMPVPPPAQVPK SLCGVLSSSC*PGRRSPPGAEPSPRACRP CRQDSG/PAQAGGPCRQDSG/PDPAGGPR DK*ASQGPLPAGERAIAGGPCRQDRGQ PRLASSAGGHCRLRG/PTPAGGPCRL/P QRAAPAGGPCRQDSEQLRLAGPAGRLA GRHGRRSPGAEPSPRACRQESG/PAQAG GPCRQHSG/PDPAGGPRGQLSLPAGPAR RRAGNPGRQPLQTGQRAAEAGEPAFAT AVSGRD
4641	12692	A	5538	1	766	
4642	12693	A	5539	74	1178	
4643	12694	A	554	3	910	GRPPRVPPWLRERRRLEGGHRAAPPAPY DLRLAPPVPHPRGATWQIILSDTLKKLKI TAVDKTEDS\LEGCLD\CLLQA\LAQNNT ANKCKKSKQVAILQLFASLLTPQSSCKA KVANIAEVAK\NEFMRI\PCVDAGLISPL VQLLNSKDQKVLLQTGRALGNICYDSHE GRSAVDQEGGAQIVIDHLRSLCSITDPA\ NEKLLTVFCGMLMNYSNENDSLQAQLI NMGVIPTLVKLLGM\HCQNAALTEMCL VAFGNLAELDAIKLQLVEAGLVECLLEI VQQKVDSDKEDDITELKTGSDLMV
4644	12695	A	5540	1	857	MGQVWGLVHFTLELFQTDDEEEQEYNK VTEEVTEHVYLPA*PDVHLNQPSHQPPK AGLQLY
4645	12696	A	5541	518	578	
4646	12697	A	5542	750	797	
4647	12698	A	5543	2073	2844	IVRSLSR\TAQKIRSGCPCQSW*RRGRPVG SPSQSTEGPGQVRLRT*PLPFHTHPEGGP GAGRRSRSSLERPTSQPHRSQSGRCPAAP ATPLPSPGPQA\PLGAPFERG/PRSRSA/QG APGTGVRFFSMAQPPPCSTSQLKPCSP QELKMRLRPKGA\PDSSAPGRTAGTPPCL RCWAGSVEPLRRVRGPRRCGRGPAAAA TQWARPLCRARRGTLGGIA*PRSVAAARG SAPAPAAPGAARPGPMGPAAVAAIAG RP
4648	12699	A	5544	3	611	SLPPRASRLPPGPSFSGWSPGDNRKLPNT PPPPRAGPRPPSRAPPA*TPGPPSAGSWP* PPGTGSAPRGPAAPSAPGARRPGRPGCPA PAGRPRVPTAGAGACSAASRPGTRPRCT RPGAPRSRRRGCGPGA*PGARRPPRP RPPATRAPRSRPRGAAPPPTPRTARGA AARELRVQRGP/APLHAPQQTTPAAIVP YKM
4649	12700	A	5545	3	42	
4650	12701	A	5546	1	160	SMQQTLLLSYF*KLP*PPQPSATMTQISQ QPSTSRQDPPPTK/RL*LVEGSNNH
4651	12702	A	5547	298	421	LHPHILPIDKLLHQ*KVVSVSEYRQNEV PLYSISSNLVHS
4652	12703	C	5548	598	762	MNSMIQICQDRAEIISSYCNLKIHQRLQN LLISFLQSLKKNVNLKFINKNLK*
4653	12704	C	5549	138	296	MNLEVTVARDYLSPLADLAQRRGNIQ EIQTRQDNKVVGIVPLAEIMVGT*

4654	12705	A	555	1062	1421	DRVSLCC/PRLECSGMISAHCNLPSPGFK QFSCLSLPGWAYRSVPPCANFCVF/SV ETGFHHVGGAGLELLTSGDLPALASEKC WDYRREHTARGPVTKPSYFQVLFRLHP IFINHLNT
4655	12706	A	5550	2	1575	AMLGTRVERCLRVLGDGAVAEFDASAGV EAQTLTVWRQADKHNIPRICFLNKMDKT GANFKYAVESIREKLKAKPLLLQLPIGE AKTFKGVDVVMKEKLLWELQFK*WE KTLRRKAPLGK*MIPEFAGRETT*R/KEC L*LEQVADLDDEFADLVLEEFCEFDLLP AEKLQTAIHRVTLAQTAVPVLCGSALKN KGIQPLLDVMTMYLPSPEERNYEFLOWY KDDLCLALAFKVLHDKQRGPLVFMRIYS GTIKPQLAIHNINGNCTDRTQIALSVNNH EVHIYKKNRGQCVKAHELKEHNGHITDI DWAPKHDHIVTCGADHNAVVSQKDG VWKPTLMILRINRTATFVKWSALENKFA VGSEARLISVCYFESENDWWVSKHIKKL IRSTVLSLDWHPNNVLLAAGSCDFKHRV FSSYIKEVDEKLASMPWDSKMLFGQLM SESGGGGTGGVWHGLDIPKQSIQRNMSA MECFCNTDKRATTEGSNMALKMLRQNS ITQVSIYEVDEKDCRKYCTTGIDGEP
4656	12707	A	5551	1137	1288	RTLNLKAMASRVLRIILTGR*CLDVSIKI PL*ENLGESIMVDSLMLVKVP
4657	12708	A	5552	1	1851	MALKKADKQVLEPLMNLEVTVARDYLS PVLADLAQRRGNIQEIQTRQDNKVVIGF VPLAEIMVADLDDEFADLVLEEFSENF LLPAEKLQTAIHKSDTKLRQQLPVL/CGS ALKNKGIQPLLDVMTMYLPSPEE/L*PM EFLQWYKDDLALAFKVLHDKQRGPTG FYAPFNSRPL*KPQLAHSIILMETATERIS RLLLPFADQHVEIPSLTAGNIALTVGLKH TATGDTIVSSKSSALQLVEPNGREKRS TDKTMKAERLLLAGSGRFQEPVFFCTIG TPITV*GSQIWEHAFEMSFSVRIPVLKVR LDPDSGQTVLCGMGELHIEIHDRIKREY GLETYLGPLQVAYREILNSVRATDTLD RTLGDKRHLVTVEVEARPIETSSVMPVIE FEYAESINEGLLKVSQEAIEHHSACLQ GPLLGSPIQDVGNYLYIP*QIHPWAPSTT YDFCLCLKMPCKKALERKADKQVLEPL MNLEVTVARDYLSPLADLAQRRGNIQ EIQTRQDNKVVIGFVPLAEIMGYSTVLRT LTSGSATFALELSTYQAHSSRSKYTAQP EKWFDLNVLFGRGNSGRHPRLLHFSV RNNFYCLYLLGRNKGTVSGTFRGT
4658	12709	A	5553	2	499	RCQKAKFTPVNRRHHCRCGFVVCGPC SEKRFLPSQSSKPVRICDFCYDLSAGD MATCQPARSDSYSQSLKSPLNDMSDDD DDDDM/TVTKDTFGSI*SGEAL*EINFGG NARL*ALSLDCS\TMNLPEKLGTYVPQYI P*KEGAPAFCHSSHSTGIGFCKYIR
4659	12710	A	5554	147	315	LIPQPWGQHLPLPPNISNYD*RPQKFLGL PHPCSFGRALTPHWSTGLRLTPSAQ
4660	12711	B	5555	105	508	XPGTREVEELNALQEELAPFGLVILGFPC NQFGKQEPGENSEILPTLKYVRPGGGFV PNFQLFEKGDVNGEKEQKFYTLKNSCP PTSELLGTSDRLFWEQESSRHPLELWKF LVGQMDTHHALHHRPRQQR*
4661	12712	C	5556	4	165	MCLSGNVYHLACSCVVPQGCTTSLQF STPMIIVHLHLPKEKPALGPVILL*
4662	12713	A	5557	1	1803	

4663	12714	A	5558	2013	2024	KVAGSAGHLRRTVARDQAAAQRDPECA PTPSLARLLQASCLLSLLAGFVSQSRGQ EKSKMDCHGGISGTIYEYGALTIDGEEYI PFKQYAGKYVLFVNVA\SY*\GLTGHVH LN*TAL\QEELAPFGL\VLGF\PCNQ\GK QEPGENFRRSFPNPSRYGPTKVGGFCSL NFPALLRKGDVNGEKEQKFYTLKNSCP PT\SE\LLGTSRDLFWEP\MKVHDIRWNFE KFLVGPDPGIPMRWHHRTTVSNVKMDIL SYMRRQAALGG*RVGCPFSFKILYFPSR VYSLGGGWSILFPPQNKGSFPKFPSRLL GPP
4664	12715	C	5559	2	226	MLLPLPPSPSPSTALPGLGEMGGRPPPPY MLSVAPQTF CFISHSSPSSHRVSFAFPCS VLPPPSQKFLHRTSF*
4665	12716	A	556	213	513	GGKSLARRVPKGRMDGLNPRESSKFIA ENSRDVFIDSGGARRVAELLAKAAGPE LRVEGWKALHELNPRAADEAAVNWVF VTDTLNF\SFWSSEQDEHKW
4666	12717	A	5560	2	1308	ALSLLALPPASPP/AGRGRPAGGPAPLP WHQGLPLTRPGPEG/PLPQGRLPSPPLQP TPAQPLLLPAFLLPPAGPRRVGFAFWC P*SPGLSPPGLPSPDFQTLPCGISFLPEMR KLESWSPAGEPSPPPAPPATRVSSRMQLP DPLTLLPPAGPKATFNSYGV/PPAPE/PS QGRVRGHPEPTGPLLHSSQGQEAAPLP GPCCYGD\TAF/PRTEGPPSLPTTRARLSS PPPRFPADVVCVLSVSLVLC\PSLLVPM */PHPCCTGSLSSWLPPLLMMLLPLPPSPS PSTALPGLGEMGGRPPPPYMLSVAPQTF CFISHSSPSSHRVSFSAYPCSVLPP*APA WAQDPILPARVSPPGRVPFPPC/PPPSHT PGSEAPHS*PSVFLRKWLKATGPPAQPSA PPKPGNLGPHKPLWKLFSCASHSFP RSFC TELPF
4667	12718	A	5561	3	259	FLFWVFQIPAFPEYVTDLCICTPTSASP GYLLA\GRDKAQL\WERLRVVFQRALR DGA*AGEAGG\STPNTVTMEMQCPPGNA S
4668	12719	A	5562	2	329	AGVQWRNLCSLQAPPPGPRFSRSLSPSS QVAGTYRRPPSPANFLYV**RRGFTTV NQDGLDLLTSGSPASASQSAGISGVSHR AQPSFTFFRLACHVFVRHCHLPT
4669	12720	A	5563	3634	4389	LIQFLLLHSIGLYSYTTICLFILLMEYWL FPVFSYYYYYFFLRRSLALSPGWSAVV QSRLTATSASQVQTILLQPPE*LGQVC ATTPS*FLYF**RRDFTMLARMVLIS*PR DLPTLASQSAGITGVSHRAWSFLVLF *TESHSVAQAGVQWHDLGSLQ\PAPLRF K*FSCLSLPSSWDYRRPPLRPANFFVLV ETGFCHVGQAGLELLTSSDLPALASQSV GITSVSHHTRPGMSFFITSHKL
4670	12721	A	5564	1	369	LQPQP\PLNQSSLLSLLSSWDYRHMPPY PANF*YFPETRFCHVAQTGLELLSSDPP YSASQSAGITGV\HRA*PRFTLCTGLIRG QHGEKGLAQGHNVRASSSIQGSVVTWG LRGLFFPHH
4671	12722	A	5565	161	231	

4672	12723	A	5566	1	1401	MQIFDYNSEITDPGIQEEAAGLEGTRKP WNISMLLTTRNISLCQWFSKCGPEPDTST SWGTPQKEHCHLVNKVGVDLSLRMRGY MHGIIQPLNLFQESQLMPQTLFFPHNFQN CFEELHKWRCPDYENNVKMLPFS SKLLGSTLTSEEKQERRQQQLRRLQELN ARRREEKLQLDQERLDRLLYVQELLEEDG QMDQFHKALIELNMDSPHEELQSYIQKLSI AVGAG*AENPPSGSQPR/EWDVV/TTASQ RPLTWEQLEPSLEDVESMNDPDLFSEE/ D/TLEWRSRSP/RVQPVFNLAAYHQLFVG TERIRAPEIIFQPSLIGEEQAGIAETLQYIL DRYPKDIQEMLVQNVFLTGGNTMYPG MKS/RMEKELV/G*DPSSLFKNLASNP CAGM/DWYGGLVNWALNHLDDNEVWI TRKEYEEKGGEYLKEHCASNIYVPIRLP MSCLPLLRCPRHPSQSGAAGGGGAG
4673	12724	A	5567	2	131	
4674	12725	C	5568	170	394	MKTNGYQGRVQWLTDLVLNLKSRPVQS SRPSLGNMVKPPSIQKLKAWVACTCCP SYSGAGAGGWHEPRSLRLQ*
4675	12726	A	5569	2	583	DRKGLESSEPPPSDCRRPFGMDLLAIS/PV LLAPSPQPVQSWPSG*CGRQAPCVLES GHSAGAGVSSWDGPPVPCKCPHPGLSQ AHPGKTFGPKNLHMVPSGGAQAPGPHK ANQOSWPSCPVPVRSRPTFSHIAENPME RKSFAQSGGAGNWQRKVSNNHPWELQV FESPSRPCVKNGRAAGLVTGGFREG
4676	12727	A	557	584	827	FLFYLIFFETGSHSV/TRLCEGDTIMARC SLNFPSSDPPASASWVAGTAGVLYHT WLSFAFFRRDGVSRVARAGLQLLAW
4677	12728	A	5570	3	312	FFLNROGLALLKLEYSGMIDHCKPOIS GAQVILPVSASWVARPTGVYHHA*LIF KWGREVETESCYVAQAGLELLASSDPT STSQRAWITGLSHCAWPA
4678	12729	A	5571	1	121	IFHVLKNCQTRSIYALMSFKNEGEIKMF SNIQKLKEFITDRSK/LQEMLKNAL*AERI YY
4679	12730	A	5572	2	228	FETGSHSIFWAGVQWYNHSSLQPRLPGL R*FSLSLPSSWDHRCPTPRPCNFSIFSRD GFSSC*SGWSQTLGLK
4680	12731	A	5573	1	1896	MVSQGCRRSREMRDAHAGWDSPTALHM ARGLGRRVFSAPRHTEGGTPDGNHSLP NQKMEKLEKCKQLRQGGLCVRVSDR TVRSVQETTAITATLKGLTYCRGTRN LLTAEGFMPHASVCISKSGKVARNTVQ GFTAHGKAVLEAAVSASGAGTWGCLR IKWPRSVSWLLKPERAATLVGHGCRKS GCPPGLGSAKM/PPRHQSAAPAGRGRC PCWGPEPTSGSLSNQQWLPALHAPPLP SAPLLGPPLSRTVDTGPGGSGREVEATT CGRRLKDKDSEHAGAGSRHHQSQVTGS LGEERAVRAESPGEPAEFLRRIQGA VQTRAVTAGSSVEKINTKLETCDASEEE VLGGDNVETEERSVCVPEPVKMTLFEKR VFADIHRLARWAPAATNRRDLVNTLIPG HGPPCSLVAFL/APPSRPYP*PAARCWW ASDFPERGKRLRAHSSFPVPAPCVPVQ SQSGPLPCTPRHFPLFPAPAFGICRGPR APGG/SKAVATQRPWWLYAPGTAPGGL PW*/AVPGHNKSIPPQPVSNLTETPLNAP QSSWAALGSKRLGQGC SHGFFAFSFTAD VCTNDDTLNANSLTEVLATEIKHDINLA NEGLAWDRGWYDQGDMLSL

4681	12732	A	5574	1	475	FWKSPYSVQPRTEARAQGNKQKEFRET APGSSSKADTKSEHLWALLPSRRWGGS QTQHPPLAREPQFLACGPMKDIRLADWS TPLLSNPS*KLP*ICQSCPLEQEGKQKA*D ARGVPSFPPELQPPSGLTAQGQTHRPHPD LRMTCGRTWHFFLAKTLH
4682	12733	A	5575	2	468	SRGILADPPRPGGQPDFLQP*PTRVAALS GLSNQDIDLGHLMRRQPQVPAGPEAET AASRTALPCAVNPWTVLRATLPDLDCIQ TEACGMKPSAVSKFLVPRQYVPRLPFKV AVMAVVSTLRTVLSTLTHSPPCRSL QPFSVSFSIFWFGDK
4683	12734	B	5576	90	1686	XWWEPSFPQQRDSLKVTLQRAAFNP VAPTHSFKDQHPMPSPFCHFLSGPVPSRT TLATGRAAPHSSPLKSLVQGYAPWQTS MSCDYQPPRRQEHKETSRRNSEKQLQAP AQRPTPKANTSGRSCLQEDLLPEAQPG SVPVCHPCPLLHAARLAVSAAAAIRGLE VAEALVCAQKLLAACSSHLITVWSRG KVKETGLPSTVQAVSELLQVLLCKQKAG GCTPDQGPHTSKVLTEASSLPRISMCLL QPGPFSNIPGLTATLTPAATAATPGPLL PCTKHGNPLGHGLTCHYPLAPLPPAP HVRFAALSCLERSAGCCLCTPSCRITTVG GSVGSCASELNHRACFSLPLMLGFQAPI ATHQWLFVSRNDKNTLDTPRSAGCDGA HRPRQEPAPDGPVLLCLEMPAPGSYPG GAPVSGHRQVHPQQWQVQHLGQSGGIR TGLGANCGKSHDSAYKKGGDVCFPGEM VPVVHQLKGVQHPNKCGRHWGTLVQQ KQPWTGSRGPTADQLHPKNSSLTLVFP R*
4684	12735	A	5577	171	1631	GLPQAGADSDPRTRPFLLLGGLPGLSPR PYP*PAARCWWASDFPERGKRLRAHSS FPVPA/PPMRPRTVPVRAAPHPSPFPTS PSTGIRHLRAEGW*TGQ*RNTPNKSRRR LSPLVTPGSCRSSPTQSPGSGTTVEMPA RRWCAGATGPGATSP/SSLKVKETGLPST VQAVSELLQVLLCKQKAGGCTPDQGP TSKVLTEAS/SSAPHLQNVLAARSISDN IPLGTATLTPAATAATP/EASPPLHQAQW PS/TAMASPAITPWPHYPCQLRMSGLLP CPA*NAPQAAVSVPPEAE*RLAALWVH VLRN*TTGPASHCH*CSASKPPSPPTNGY SVSAMTRTPWILPDRLAVMVLTPGPKSQ PQM/RPIVLLCLEMPAPGSYPGGAPVS/ AA*AGTPPAVAGAASRAVGGHPHPRGC KLRQIP*FCIQEGWGRVFSRGNGPCRASD SQRGPAKQVQGS LGDTGATEAALDWE SGPHCRPAPP
4685	12736	A	5578	718	2209	IPSACFLVLLPSWWLVVAAHGSPLGRVA LDQAFQWTRVRGCSACGKGCPAAG/PQ AQRGSGRSWAWDAGP*RSVWGPLG*TQ PAAAL*P*VSPFVAGKGLAPTTLVGTAI QSILQGLILSWNPGEPA*RNLDGAGG RACCPDEDDQIRGGAVLAEVT*QCSCSP MPDAAHHRHRVRVGVSGAAVCPQWEL GGHGGNARPDAGRGVLRSCRGRNLLT AEGFMPHASVCIQSKSG/TSQTQHCPGV HCTWQSCPLPSAPLLGPPLSRTVDTGEE GHPVDASWTPSTPREPGRWAHCLPQRK P/PLGPAREARASVPPAHSGTVAGEAPPVIS HFR/SPAPAFGICRGPRAGATEALPAPRA DAPVKAHV/PAHTGAAS/EPARHVRFPPT ATAPFTFSAVHKGS GFSTSLQTLVIFCC VLMVAIPMGVRWHLTVVLWTLNLAISR VPISVCALDLSFISVPCPLRCWCWWNRV SPKLASPGCECDLCGQMRVMVSSHFSV E

4686	12737	A	5579	2	354	LPSSWDYRRPLIFVFLVETGFNMLARM VSI8*PLDPPDLASRSDEHGVSHRAWLIL S**KGERKSTNVSHKEGLG*WSRATVLO VYSVGFWEVFFQGCPSQSYFHNNTNM LFAF
4687	12738	A	558	442	626	VEEGGSEAGWALRIKCINGVSPKL/VLQL LHFPQIFNGSFVKLNKASVNTLRIVEPYIT WST
4688	12739	A	5580	1	1263	MAEEQGRERDSVPKPSVFLHLPDLGVGG AERLVLDAAALALQARGCSVKIWTAHYD PGHCFAESRELPVRCAGDWLPRGLGWG GRGAAVCAYVRMVFLALYVFLADEEF DVVVCDQVSACIPVFLARRRKKILFYC HFADLLLTKRDSFLKRLYRAPIDWIEEYT TGMADCILVNSQFTAAVFKETFKSLSHID PDVLYPSLNVTSFDSSCS*KAGMT*SPRG KNSWLLSINRYEREKGIWTLGTGKALV QLRGRLTSQDWERVHLIVAGGYDERVL ENVEHYQELKKMVQQSDLGQYVTFLLRS FSDKQKISLLHSCTCVLYTPSNEHFIVP LEAMYMQCPVIAGNSGGPLESIDHSVTG FLCEPDVHFSEAIEKFIREPSLKA TMGL AGRARVKEKFSPEAFTEQLYRYVTCLLV
4689	12740	A	5581	200	705	LSQTL/TVLYPSLNVTSFDSVVEKLDL VPKGGKFLLSINRYERKKNLTALALEAL VQLRGRLTSQDWERVHLIVAGGYDERV LENVEHYQELKKMVQQSDLGQYVTFLLR SFSDKQKISLL/RQLARVCFYTPRQ*GTL GIVPLGRPCYMAVPQFICCLIRVGPFGSSI
4690	12741	A	5582	1	259	ERGSRSIARLEC/SG/AISAHCNFRPPGSSD SSPSACRVAGITGRHHPQLFFVFLVEM GFHHVA*DGLKLL/NFMIHLPQPPKVLGL QV
4691	12742	A	5583	94	395	PIIITYFEFLNGYIISQKIKFSHHQLQKIDFL P*TWHLFLIEQR*NILMEGNQFSVTDDVK ILFSGKLYSHSKIQSMLL*LVTRE*CYMF NCNICLLSFSSLSVIINDLQNP
4692	12743	A	5584	3	270	FFEAGSHSGCPGWSESGAIIAHCSLDLP SSNPTSAS*IAGTRSMHHHAHLIFVFLVE TGSPYVVQPSLKLARVQAILPPRPKVLG LQA
4693	12744	A	5585	13	775	YSVRGLVPAERRTYPGSIAPADGMVY ALEGMGPDTPAQAVRVYEP RRDCWLS LPSMPTPCYGASTFLHGKIIYVLGGRQG KLPVTAFEAFDLEARTWTRHPSLPSRRA FAGCAMAEGSVFSLGGQQPGAPQLAYS RPHFVNTVEMFDLEHGSWT/IAPQPAHE G*EGQTLWLGLGATLWPLGALETSHVL WALLEPSLARRRWEALPAMPTARCSCS SLQAGPRLFVIGGVAQGPSQAVEALCLR DGV
4694	12745	A	5586	1	936	
4695	12746	A	5587	1	1023	
4696	12747	A	5588	3	345	LNLLMYFRDNVSFCHPGWSTVM*S*LA AASNWVVT*SSCFS/LPSSWD*S*LPPCP ANFFFF/CQ*RQNLIMSSRLVSNL/QPQV MLLPQLKALGLYRVSHHASVKVFNVL NM
4697	12748	A	5589	1	430	GDGVLLCRPG*STVALSQFTAISASWVK RSSCLNLPSSWDYRCAPPCPAKFCIFSRD GGFTMLARLVNS*PQMIHPPWPPK VPP LPACVWYFSMACNPLYTPSFLLRLFCQQ PKMEKAALCQGS PKTVKSCESQMFTFNF F
4698	12749	A	559	3	398	

4699	12750	A	5590	3	389	GVSPCWPGWS*TPDLK*STRLGFPRCWD YRLLEVDPCTGHSLYL*KDPPVLPPLPAEG CDYQGKEYALSSCCDKSYLLPDYRTKFL CCHPERGTWKLGTVGCCYAPIQSFGIAD EQAWLQHGGSGAVYLC
4700	12751	A	5591	3	53	
4701	12752	A	5592	363	777	DMRPQLCSVDNHRQRAEFINIYQHQQF FLRQSLTSVAQAGVQWCSLSSLQPLPTG FKPFSCSLSSWDYRHMPPSLANFFCIF SRDRGFTMLARLVLS*PQ/CDPPALASQ NAGITGMSHHA WPTPTFSYLLNTQD
4702	12753	A	5593	3	85	FFFFFLMLHNNVYLVHLFTISYKHFIHV LYKQQFKFTYVY/TFICLLVFQFQIILLES FPFLKIJLL*SL
4703	12754	A	5594	1	281	FFFAPETESYSVA\RELECSGTLVHCTLCL PGSSDSPASASQVAGTTGACHHTWLILVI LVEIGFHHV GQAGLG/IS*LQVIRPPWAP KVLGIIG
4704	12755	A	5595	2	369	FFLRWCFALVAQAGVQWQDLGSLQPLP PGFKRFSCLSLPSS*DYRCPPTRLANF/SV FLVEMGFHHVSQAGLELLTSGDLTTLAS QSAGTTGVSSRA WPDLYLFSYLIEKTSPF KFSIPFHLEI
4705	12756	A	5596	432	1490	KKGCGKPGELCGCMPSSWKNA YCPTAQ QTAQEYLSSPCGSAAPCLP/DRASSSSRS VEASSLDSAPGT\SAAGSPSPRPFGEYH HPGPGANNEPTPAESIVVPSWP*GCHSS VAVEKLSLAPGTPT/SDLPLDSSMNRKA PIPVFGLSASSLLPLKDARASET\SSR*TH Q*FFGKDVH*TQNSLAQSLQHSSGPQLL WGKTGNSQSSFPQAG*HSRHKEGCWRE PSHKPLEPHLSQHHGTASSARIPEVPPP HSLGHSPACA WRSSSPRPRPLAALPGC RRRRGAGSSHKAPDRSTARPGRCGRRR GRRGARRGCGGSGRGP SHSGPQRSESA PAGAHTRLQPLRSHSLH
4706	12757	A	5597	1	2163	MARMSFVIAACQLVLGLLMTSLTESSIQ NSECPQLCVCEIRPWFTPQSTYREATTVD CNDLRLTRIPSNLSSDTQVLLQSNNAIK TVDELQQLFNLTEDFSQNNFTNIKEVGL ANLTQLTILHLEENQITEMTDYCLQDLS NLQELYINHNNQISTISAHAFAGLKNLLRL HLNSNKLKVIDSRWFDSTPNLEILMIGEN PVIGILDMNFKPLANLRSLVLAGMYLTDI PGNALVGLDSLESLSFYDNKLVKVPQLA LQKVPNLKFLDLNKNPIHKIQEGDFKNM LRLKELGINNMGELVSVDRYALDNLPEL TKLEATNPKLSYIHLAFRSVPALESML LNNNALNAIYQKTVESLPNLREISIHNSP LRCD CVIHWINSNKTNIRFMEPLSMFCA MPPEYKGHQVKEVLQDSSEQCLPMISH DSFPNRLNVDIGTTVFLDCRAMAEPEPEI YWVTPIGNKITVETLSDKYKLSSEGTL SNIQIEDSGRYTCVAQNVQADTRVATI KVNGTLLDGTQVLKIYVKQTESHSILVS WKVNSNVMTSNLKWSSATMKIDNPHIT YTARVPVDVHEYNLTHLQPSIDYEVCLT VSNIHQQTQKSCVNVTTKNAFAVDISD QETSTALAAVMGSMFAVISPASUAVSFP KRFRRKNYHHFIKKVLWQKTS\SIPLNE LYPPLI*PLGKVDSEKDKDGSADTKPTQ VDTSRSYMW

4707	12758	A	5598	50	824	SLLKPYVVRIFTKEKSYKCECGKFHKS CSRH*NHKIHTGEKHYKCECG\KVFNH C*QLIAQKKIHAEKNSDFKECGKAFNNY YELTHQRFAR*KQCKNDTHYIYLWK DVT*KP*STQGVMIHYICTWKDFKNI SLRVHKSFYTEEKHYKYKDCCNIFTYVT DFVVHRIYTER*PSNSCSNFIPF*IYIGK KPYNCNEYEKNCLKSTP*KTLV*GRARW LTLIIPAPWEAKAGGSRGQEIETTMKPCL Y
4708	12759	A	5599	1	2043	
4709	12760	A	56	939	1603	GHSANWWLGPEENPALPTPELVSPPRGC RQSSRPSLRHKEEKAK*KSPQPTILRPPP APPTGSLQAPKGGARPPSRPRPPRPAA PNPRLPPPPSPE/PGRSSCPAPPTTRTPR VQSQTHRPPASSAYEKKDAARAPTATGR APRRPGLRPKSWMPEQEKEPPTDRSIDR TPVPSPYQTREGGRA\PRASSI*GPDSPAT RQDGSSGPHRSYRPGCVAR
4710	12761	A	560	1	960	IMATSATSPHAPGFP\AEGRCGYVEKKK RFCRMVVAAGKRFCGEHAGAMEEEDA RKRLCPLDPKHTVYEDQLAKHLKKNS REKPKPDFYIQDINAGLRGETEIQEQL/CL NSTLTDHIMSHPALHDALSDPINGDSAT KHLKQQASILGNENLKLGP RRCFVEF GAGKGKLSHWVDIALKDAEKVHFILVE KVTRFKVDGKHRKKNSVFERLQIDIQH LCLNKIPVLREEKLPVVGIGKHLCGMAT DLALRCLVETYAASFEERNEEPLAKRIK NDKTEKEIYTLAKEGNEKNVPEKWNPV AGIVIALCHHRCDW
4711	12762	A	5600	18	403	FCIFSGDGVSPCWPGWSRIPDLR*SACLS LPSSWDYRRPPRSANF*\FLVKTFGHH VGQAGLELLTSGDPPASASLSAGITGVSH CTRPYAFKQLNFHIDKSDYRLYRKL YLKATTMVFRYAFL
4712	12763	A	5601	2	497	ETESHVSTQAGVQWCDLGSLOPPPPRLK RFSCLSLPSGWDYRHVPPLANVCIF**I WCFTMFARLVFNSRRTPSDLITSAS*SAG ITGVSHRA\RLCIFYFYFFVAEMVRMSCF VTQVGLEFVALSD\LPWPVKVLGLQA* ANSAWPVFCNSFFHSHLNAFPN
4713	12764	A	5602	3	303	LSCFPQATFFFFIF*DRVLLCPGRSTVVQ SQLTAALTSRAQGSSCLSLPTKWDRHV PPYSAFFLVLDKSLALLPRLVLNSWAQ AILPPQPPKVLRLLA
4714	12765	A	5603	122	525	QFFFEIGSLSVAQVGAQWR\STSPLQPW SPGFK*FSHLSLPESWEHRPMPQGLDNFC IFVETGFRHVAQASIKLLGSSDLPALASQ SAGMTSMSSHAWPIVKNFVCIYYVPDIV LSMLS VKSINIHNHVRGLQ
4715	12766	A	5604	1	198	LTGRL/SKCEVVS WRFDVQLKDLKRWQ NHLLLSQQLACIVLTSAGIMDHKEMR*K HTGGKSLGFFF
4716	12767	A	5605	156	1047	VPAGEARVQWHDLGSLOPPPP\GSSDSP ASSSRVAGITGIKNTICKKCAQNVQLYG TPKPCQYCNIIAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDRKDDRKKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSQKTLSTS SIQNEIPKKKSKFESITNGDSFSPDLALD SPGTDHFVIAQLKEEVATLKKMLHQKD QMLEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP

4717	12768	A	5606	156	960	VPAGEARVQWHDLSLQPPPP\GSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIIAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDKDDRRKKVDGK LLCWLCITLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSFSPDLAL DSPGTDHFVIIAQLKEEVATLKKMLHQK DQMLEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSF
4718	12769	A	5607	1	354	ETEFPSCCQAGVQ*HDLGSRQPPLPVGSS DSPASASRVAGITGMHH*SRDVLIRILEL EEGLELCPHFSVRNLPKTGQILTLMLSLA PVKLAPQPKLSWMELTRHSRLWAALSG GGQV
4719	12770	A	5608	3	403	YIFSRDRVLPCFPGWSQTPGLKQSARLCL PKCWDYRREPPQLAED/SYFQFRASLKM TL*GIVSMV/PLLQKLLWMCKAQGNQAE EGTGVALPEREASSWSCLLQLPFPVDEP CSSFKRRESEKEPSPNGFPNLNI
4720	12771	A	5609	340	1015	VGSVEEFQGGERSVILISTVRSSQSFFVQL DLDFNLGFLKNPKRFNVAVTRAKALLII VG\NPLLLGHDPDWKV*APPPHSPS*WP QPLPRAGGSFLSACLSLS*SSDVSIFTASL LYL*VK*HPEVEQVQLRWDRVA*PPVS AGHSSVPHRFLAEFCENGYYTGCPFFAK LDLQGGQNLLQG/LWSKLSPTSGPHSH GLTSPREREGERGPVFCCKWEPEWRNEL
4721	12772	A	561	111	349	SLSDSGCKAYVGDEY\LPGPALDLHAQP SLLKEHEEEKMFTLKGNRPAADVKNIIIF FVRPRLELMDIIAENVLSEDRRG
4722	12773	B	5610	769	809	GFPIIFHGMGKDEREGNSPSFFNPPEAA TVTSYLKLLLAPSSKKKGKARLIPRSVGI SPYRKQGADELEKIDFEGGFSKKNSK AQERSVILISTVAKRPRALLQDLDF*
4723	12774	A	5611	99	341	SELGTVAHTCNLILPSSGDYRRSPHLAN F*FLVEMGFHHVGQSGVELLSSGDSLAL ASQSPGITGVSHRAQVPPPPFFF
4724	12775	A	5612	1	1795	MRQSHQLPLVGLLLFSFIPSQLCEICEVSE ENYIRLKPLLNTMIQSNYNRGTSAVNVV LSLKLVGIIQITLMQKMIQIKYNVKSRL SDVSSGELALIILALGVCRAEENLIYDY HLIDKLENKFQAEIENMEAHNGTPLTNY YQLSLDVLALCLFNGNYSTAEV\NHFTP ENKNYYFGSQFSVDTGAMAVLALTCVK KSLINGQIKADEGSLKNISIYTKSLVEKIL SEKKENGLIGNTFSTGEAMQPSGVPLN GCSTTLAVACSTGHRKCSRALENRCR SPAARKVTKNRLSNCQTGQRKLRRCDN RMQCGVLDRIEQKEDISGTTSEIQIKWG VELHSYSRWRLGKVAMEMVQCQKAGY PERGDGVGAVAEGPNIKVAGGLRELETR KTALPENESSQEHAFITITLQHLVQGLAH SGYSVLSKCLLNENRAMQKHGTVWTQQ IQSSAAEKSEKTMWDRLGRGTAHSWQ ACPVSLKKQAVEGAHQEEQCKRRDEM PGESDLVTMASGRDALLCGRCCQAKT EELTTTVPRLGEQREAPLPCSTPPGSTPPA AK\PRPSAAPDGPSS*SPGARRQVARPRR GQAPENK
4725	12776	A	5613	12	367	LGGASEATGASAAQPPPPPPAPRAPNPAP GPAPAQR*SALDPLPGRAPRSFLKGPRP ATARPPG/WRLQSPLP*PESPPDTRGVRG EAPAPADPAAGPRKSKSDCLAAVIRCLC RAPR
4726	12777	C	5614	231	302	MNSFLVFFPLYVQMYMLRLNFCA*

4727	12778	A	5615	194	737	EGGVCLSWCGWFGPVCCDYTPPLPEPR DGCLC/PLPKMPPAPPMLPIQQSFQPFQE RPGPSPVPETASPPAGN*ISHLSEGPNTQ WSPGFKPWGVCHL*/CGHVGVPPLKPAP CPLE/CCPSGCVDSGAFFQKHSPSGSGPE TAAGPSHLNDNWQRLGFYELLSGIFCRA PNKCICYVSIFVLK
4728	12779	A	5616	2	360	PRVRDPRVRPRVRRRIYKPLRTRDELQ FLDKMDDPDY/WPAVDFFSGDVMHPVT NRPADKRSFIPSLVEKEKVS RMGHAIKM GWIQPRRPRDPTPSFYDLWAQEDPNAVL GRHKMHVPA
4729	12780	A	5617	1	2072	DSGSDSSEDDDEGDEEGEDGALDDEGHS GIKKTTEEQVQASTPCPRTEMASARIGDE YAEDSSDEEDIRNTVGNVPLEWYDDFP VGYDLDGRRYKPLRTRDELQFLDKM DDPDYWRTVQDPMTGRDLRLTDEQVAL VRLQSGQFGDVGFNPYEPVDFFSGDV MIHPVTNRPADKRSFIPSLVEKEKVS RM VHAIKMGWIQPRRPRDPTPSFYDLWAQ DPNAVLGRHKMHVPA PKLALPGHAESY NPPPEYLLSEERLAWEQEP/SERKLSF LPRKPSLRAVPAYGRFIQERFERCLDLY LCPRQKMRVNDPEDLIPKLPRPRDLQ PFPTCQALVYRGHSDLVRCLSVSPGGQW LVSGSDDGSLRLWEVATARCVRTPVG GVVKSVAWNPSPAVCLVAAVEDSVLL LNPALGDRLVAGSTDQLLSAFVPPEEPPL QPARWLEASEEERQVGLRLRICHGKPV QVTWHGRGDYWPVLAPRGHTGVLIH QLSRRRSQSPFPCTHV*VHRVAFSPARPF LALVGQRSVRL/YHLALRQELTKKLMPI NCKWVCQPGGCNPAGDNVICGSYDSK LVWFDLDLSTKPYRMLRNH/HRRALLA VAFHPRYPLFASGSDDGRVIVCHGMVY NDLLQNPLLVPVKVLKGHVLTDLGV DVIFHTQPIWVVFSSGADGTVRLFT
4730	12781	A	5618	1	214	QDSALLQLL*IIYPVYNLSPAGQGRDLF SCLLRHRLKLPTSEGVRTQSAQAFKGP NAQTQWIYGHDPN
4731	12782	B	5619	58	280	IHCAISKIDIEKDIQAVMEETAILSTENKS EFLTDYFEEDPNSAMDKERRKSLKPK LLRLQRDIEKASKDKEX*
4732	12783	A	562	223	747	CIGKVYVWLGGVGWLQKSWGTPLFSPH PPGRPRSFAGHSPQGLGVGLGENRI LVIIFNLIYCTYLQGLGEVEGEGSPLS APPTPFLRRFVCV/GPHPLPIPHCCLDVVL FFYRSPFPSPFPSPHPLPLPFVSCSFLG FCTTQLVYTVYTQPAKRKPNGKHFKKK KK
4733	12784	A	5620	2	785	HFNM RDPLTDCPYNKVYKNLKEFSQNG ENFCKQVTSVLQQRANLEISYAKGLQKL ASKLSKALQNRKSCVSSAWAWASEGM KSTADLHQKLGAIELEAIKPTYQVLNV QEKRRKSLDNEVEKTANLVISNWNQIK AKKKLMVSTQET*STFPSL*ESS/ARQSM TEKEKRKLLNKLTKSTEKLEKEDENYYQ KNMAGYSTRLKWENTLENCYQSIL/ESW RRKEFNFYAITLNQYSQHISLFGQTLTTC HTADSLCHQQD
4734	12785	B	5621	13	543	MFLAPIAVSVRRFFXVKASVYAYTMFFS TFYHACDQPGAVLCILSYDTLQYCDFL GSGAAIWVTLCMARKTVLKYAYRCG HRRQCYPTLWQRWAFYLLPGVFMA SVG IAIYTSMMTSDNYYYTHSIWHILLAGSA ALLPPPDQPAEPWACSQKFPCHYQICK NDREELYAVT*

4735	12786	A	5622	1	1798	MLCFYAGSCRHFRSGAPPVINPLGTSFPD DTAVQPSFQVGVPLSTTPRSNASVNVSH PAPGDWFVAHLPPSSQKIELKGLAPTC AYVFQPELLVTRVVEISIMEPDVPLPQTL LSHPSYLKVFVPDYTRELLLELRDCVSN GSLGCPVRLTVGPVTLPSNFQKVLCTG APWPCRLLLPSPPWDRWLQVTAESLVGP LGTVAFSAVAALTACRPRSVTVQPLLQS SQNQSFNASSGLSPSPDHQDLGRSGRV DRSPFCLTNYPVTREDMDVVSVHFQPLD RVSVRVCSDTPSVMRLRLKPGMDSGGS LTISLRANKTEMNETVVVACVNACLAL PLALILSLNCTTAFFQGYPLSLSA/GSRRRA NLIPYPETDNWAYLSLQLMCPENAEDCE QAVGPRWEDHLCTWGALF*TDGPGYGO C/SLRRHSYLYASCSCKAGWRGWSCTD NSTAQTVAAQQAATLLLTLSNLMF/LGP PSPSSVRRFFLVEASVYAYTMFFSTGCG VGGQDRAHGASPFYHACDQPGEA VLC ILSYDILQYCDFLGSGAAIWVILCMAR LKTVLKYVLFLLGTLVIAMSLQLEPQGH VEHLGGPASLPS
4736	12787	A	5623	121	291	AFCFPKYELTINFKNFQLGVVTHACNPST LGGRGGRT*AEANLANMAKVPCLLNK
4737	12788	A	5624	571	690	CQQGFSFLQAYGPAQHAI\$MRKFKAKY PDYEVTWANDGY
4738	12789	A	5625	130	943	
4739	12790	A	5626	45	473	GIPGRRNMAVADLALIPDVIDSHGVFK YVLIPSLGLPAPGIRPAESKEIVRGYKW A/GHHADIYDKSVGATCRKQGLRTVS WTAGPHLPTKSPGQERFT*YG*FHGPMV LPKNANFNLRKSKAKYPRLTEVTLGLNR PAT
4740	12791	A	5627	3	348	TLRLTHLHTDTHQ/HSHSYTHEHTPHT PHTETQTH*YTYALQ/PLRSHLIFLRQSRP QNGNAPLCEFSHPSPDVLQTLHLTSVV VKIPSTSLMCRSSGGAQCRESLDQHEG VGP
4741	12792	A	5628	3	331	FFEMESPSV/SQAGV*GPNLGSLOPPPPQ FKQFFCLSLPSSWDYRRTPPCANFWIF* KDGVSPPSWP*WSQSLDLGLFKFIYFFKET LILCTQSSTTTTTTKRTTRSSH
4742	12793	A	5629	3	336	SHSVAQAGVQWHNLGSLOPPPPAFK*FS CLSLPSN*YRPRPPHADF*FLVETGFS HVGRAGLKLLTSSEPPACASQSAGITSVS PPCRAHTFELIPLCPFLFWPLFCP
4743	12794	C	563	238	267	MQINSQMER*
4744	12795	A	5630	1	267	EMESCSVT/LECSGAILAHCNLCGLSS DSPASAS*VAGITGMCHYTRPTFLFLVE MGFCHVGQAGLELLTQVIRPPRPPKVLG LQA
4745	12796	A	5631	3	521	FSFFFFPAFKMSNRGRGSSLL\GRKFPDF PLGPSGRLL*SNWCLTNTRSPKTLYIHL *RGNQGDRLDQTSPLLGVGDMVMAHS/ VKKGKPELRKK/VHPSSGSRQPKVHY* EKMGVFLFFEG*LOGVIVEPFKGRDGK VSCHLPGTLGKGSFADFVAPGICIPMP WQPLH
4746	12797	A	5632	3	216	DRSHSVTQAGV/Q/WCDLSSLPPPPGLK *FLCLSLSSWDY/GAPPHQTNFYIFIRDG VSPYCPGWP*TPSLG
4747	12798	A	5633	1	412	IIRSKNI*YLEINPTKHTKTFSKTLTKEMK EDLN*WQENPCSWIGSVSIVKMSVLSKL IHTEIQCNRNKYPQIGLLLLPLLLFLLDR LVLFKFTWKGTGPRMAKAILRKS/SEDLT LTYINTYYKATVIKLVGAKPD

4748	12799	A	5634	276	2588	NKHFSFQTPKKSHQKSLSFSTKTPRRISH TPQTPLYTPERLQKSPAKMTPTKQAFAK ESLKDSSSPGHDSPLDSKITPQKRHTQAG EGTSLETKTPTPTPKRQGTQPPGFLPNCT WPHSVNSSPESPSCPAPPTSSTAQPRREC LTPIRDPLRTPPRAAFMGTPQNQTHQQ PHVLRARAEEPAQKLKDKAIKTPKRPG NSTVTSSPPVTPKKLFTSPLCDVSKKSPF RKSKIECPSPGELDQKEPQMSPSVAASLS CPVPSTPPELSQRATLDTVPPPPPSKVGK RCRKTSDF/MKEAS/SECQLDASATPGVG TADSPAAPTDSRDDQKGLSLSPQSPERR GYPGGLRSDWHASSPLLITSDTEHVTLL SEAEHHGIGDLKSNVLSVEEGEGLRTAD AEKSSLSHPGIPSPSPGPGSPLMPSRDV HCTTDGRQCQASAQLDNLPAASWHSTD SASPQTYEVELEMQASGLPKLRKKIDPS SSLEAEPLSKEESSLGEESFLPALSMPRAS RSLSKPEPTYVSPPCRLSHSTPGK/TGGK PTSARVPPPT/SPSSTPSPFQTDGVPWTP SPKHSGKTPDIHK/TGPGGRGRWAVAPA PLPGGARSVQPSWEPVTA*VRQGGRD* TQHPQDAHLGGF*ARGSVAPRPVASQE /PACLRPRKPLPGDSL*VPGRESCWPRK KLTVEPKGSVT*EKIQKLVRVKRGLQVG VHGSYPRETCKRCLFPAPHLPAVPCGAP SPASALQALTQSPLLQKTPSSQSKDPR
4749	12800	A	5635	29	268	ILINHFFLESCSVAQAAVQWHNLSLQPP PPGFK*FSYLSFLSS*DYKHAP/PRPANFCI FSRDAIVSPMLASWSQTPDLK
4750	12801	A	5636	2	118	
4751	12802	A	5637	1	262	ETDLALSARLECSG/TILAHRLRLPGSR HSPASASQVGGTTGARTTPG*FFVFLVET GFHRVSQDGLDLL/NLVIHPPWPPKVLGL QA
4752	12803	A	5638	3	309	IDTTFFFFFFFFFFETESLSVTRLECSGAIL AHYKLRLPGSRHSPASASRVAGTTGARH HARLIF/VYFLVEMGFHHVSQDGLDLLTS *SGPPRPKSLGLQA
4753	12804	B	5639	49	754	MAGAAPRLPWSRPHGSCGWWMQPLQ GPGRRAVAAAWEVATPVFMPVGTQA MKASRPNSWTLWVAASAWAYLPSGSK AGGTAAPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCRSRMRWAPGVVT GALLQVNPLAGPVHAAHQRPDKQNLFA IIQVGWTOISGPPALKRFGSAWHSRAFLT HCCTVTTRPCTTSRPQHRLPAELMSAV RTSIVEKRFDPSCGTSWAPX*
4754	12805	A	564	549	848	LFFPHSQSTKVFSSTYEQIMCVCVFLFFCF FVFPETGSHSV/TRLGCSGVMAHCSFNL PGSPDPSTASQVAGTTGVCHHAQLIFKF FVEPGQHTIPLSL
4755	12806	A	5640	3	906	TVKMAGAATQASLESAPRIMRLVAECRSR SRARAGELWLPHTVATPVFMPVGTQA TMKGITFNEFLDALGCRICLGNTYHLGLR PGPELIQKANGLHGFMNWPNNLLTDSG GFQMVSLVSLSEVTEEGVFRSPYDGNL TLLSPEKSVQIQNALGSDIIMQLDDVVSS TVTGRPRVEEAMYSIRWLDRCIAAHQRP DKQNLFAIIQGGLDADLRATCLEEMTKR DVPGFAGGLSGGESKSQFWRMVALSTS RLPKDKPRYLMGVGYVVDREARALPVG SGFLGTPYPAWGGGIWGKRTQV

4756	12807	A	5641	379	677	EGLRP/ELQNLFAIIQGGDLADLRATWP* RDDQARNVPGFAIRGALSGE*EQSREF/C AGWLAAEHTLG*PKDKPRYLMGVGYAT DLVVCVALGCDMFDCVFPTRTARFGSA LVPTGEVLQLRKKVFEKDFGPIRPG/CTFP HVPKAPARAFLHATAAQ*QHGPRTILT VHNIAVQLQLMSAVRTSIVEKRFPDFVR DFMGPMYGDPTLCPTWATDALASVGIT LG
4757	12808	A	5642	2	335	AGVQWPDLSLQPLPPGFKRFFHLGLPSS WDY/RVHEAPRPANFLAKFLVEMAFCHV GQAGLELLGSSDTPVLAFAQSGITGESHLA WPVFN*NGSFNVFSLRVINEHLALHL
4758	12809	A	5643	56	571	YYQNPPKKKLAASCGLSPVLQVLKSLKG EVLPLGETQHYFPLNRELRLLTQHFLLL MPLSQ/QTSKAGTHARLIDPDYQGRTKF KIRNGKKILNGRRKEIAWNVGFST/PCLL WKVIGILEQSNMAIYWYIHPRMKV*ASP PGKEQRPFEVTPEGQRNMEWLEERNNG RCLP
4759	12810	A	5644	2	1085	
4760	12811	A	5645	387	533	RWSDYVERYMNSDTTSPELREHLA\QKP VFLPQGE*AMSIQCVHTVHD
4761	12812	A	5646	1	169	VFLVETGFRLLARLALNS*PCDPPASAS QSVGITGESHCARPGITILMKHRGQLCT
4762	12813	A	5647	2	369	FLRWSFTLVAQAGIQWCGVSSLQPLPPG FKQFFCLSLPSSWDYRCPPPCPTNF*LLV EMGFHHVQAGLELLTSGDLPASASQSA GITGISHRARPGLFF*AVNGGGNQVFLF LRVLNGL
4763	12814	A	5648	1	340	FRPQSC*CPPADSRLFPATPEAVLSLLVK ASPPPELPRSPPEKPTGLSGGALG*QRFSR AARNRGDPLTRKNSKITSLLSFLQELTKA LEQKPDDAHILSSKSLLSHSSWELL
4764	12815	A	5649	2	660	RPPPAPAPGPQGPWPQGPYP*AESPPARS RTPHASQLPRCGPRPTADPSSAPSRRLRP TSRSRHCFPAAGS/PGTPPQPPSADVRRV PPFSPSSRW*PPQSC*RPPADSRVRSR PPLRPSFRFL*KPARPQSSSVASREAKGPL VERQVDSVLGAPRETASSFATRPCATLP GKVTANCKPPQKTSQQLLVRLSRSVA AYSSPFFGAPEIGEEMPI
4765	12816	A	565	178	375	ANFIAGVWSQSRFHALALHIIQGSKKV P*ANFIAGVWSQSRFHALALHIIQGSKK VPIVSKLENDTAARHELFIAEWRKQCSE KKAQAKGWRQW
4766	12817	C	5650	19	153	MKMTSNFLLFSSGIFSSTFQIHLDPLEL QTQNTVMGCLMRIHP*
4767	12818	A	5651	2	306	ETKSCSVA*AGVQRRNHGSM*RQPPGSS NPPISASRVFG/ITGICHRTHLIFLFFVETG SHYVAQGSS*TPEAQVIRLHQPPKLAVFF YIFQLFLCFLVCY
4768	12819	A	5652	2	760	FFFFFSENDGHLDTGARFAPDRRHTGV GRTKDTQVGYRCHTAPARARGGWGED GCLAS*PGVRVKSRSWVPGAPGRGGQC HNPSGFPT*PGGRHRKQPRPGARVLQAG GQGQAFPLAGWHLSPGYWLSTPWAC KGLGVVLSVTPLPPRSPWVG*GLGSR/Q AVEGRAAQGRYLSFCPGTQW*WPPSAPI PTGT*SEVAHTKGVPGPEPPAARGLRT LTLAVGPGLPGRSLVQHPKRYRALQALT SCFCSA
4769	12820	A	5653	1	834	

4770	12821	A	5654	674	1268	PRDLPASASQSAGITGVSHRLRFYFDHQ DVAPECGAYFFHELAKERKGV**NTL LAKMVSIS*PRDLPASASQSAGITGVSHR LRFYFDHQDVAPECGAYFFHELAKERK KGVERRLLKMQNQRRGGPAVFQDILKPGQ DEWGKTEAMEAAMAPGKNLNQSLLD LHALGSAPTDPHLCDFLESHFRDEEVTF MPRKSADLHAAGEAASLGGVSLNVMK GASLHALCLRLNSFGPGVATLCGERVV HKNNRASALRKCIFWP
4771	12822	A	5655	2	612	RYDFFFFFFFFFVTESRSG*LQSQAGVQ LRDLGSLQAPPPRFTPFSCVAPSSWDYR RPPRPANFFLYFY/MRRGFTVLARMVS IS*PRHLPALASQRAVITGLSHCTRLFFF* WMESPSVTQAGIQWHDLGSLQPMPPQF R*FSWLSLPSSWDYRRPPRPADFCTFSR DGVSPC*PGWSRSPDLVIHPPWPPKVLG LQA
4772	12823	A	5656	140	261	RAEPPLANHILFF*DRVSLCRPGWTAM A*TWLTVASTSRAQAVLPPSASPNS*DY RHVSPHPLIFVFSFLIMLSRMVSNWSAQ GILLPWSPKVLELQA
4773	12824	A	5657	79	358	AGVKWGDGSL/QPPPPRFKRFSCSLPS SWGVRHAPP*PG*FSVFLVKTGFLHVGQ AGLELLTSGDLPVSASQSAGITGMISHCA WPTKALISK
4774	12825	A	5658	2	350	SQVDR*QSEPEIRICREDHMERLQAFDA NSRKQEAWEKKAKELEEWYARQDEQ LQKTKANNRVADEAFYKQPFADVIGYV EEAFVNDIDESSPGTEWERVARLCDFNP KSLD
4775	12826	A	5659	3	752	HRCGVGGSVGFCLTVGVRVQLPAMAE LDPFGAPAGAPGGPALGNVAGAGEED PAAFLAQQESEIAGIENDEAFAILDGGG PGPQPHGEPGGPDVAVDGVNMGEYYQE SNGPTDSYAAISQVDRLQSEPEIRKQWRE EQMERLEALDANSRKQEAWEKKAINE LEEWYARQDEQLQNTKANNRVADEAF YKQPFADVIGYVYVAKLIPFSTSDSFYFC LELMLLLCHKLLCFLNYFKLALWGLPKN
4776	12827	A	566	656	874	
4777	12828	A	5660	1	348	NSLGEANALGNQ/QPITQNVCPRFLMQ APGMAPSPFIMNTLEVRKAFLKRFWM SAPIQVGLVGFCLVFATPLCCALFPQKS SMSVTSLEAELQA*DPKRAHPLELRRVY FNKGL
4778	12829	A	5661	3	430	LRQSL/DSVAQAGVHWRLDLSR*APPPG FTPSSCLSLPSSWDYWHPPRPVFLYF* ERRGFTVLARMVSI*RRDPASAPQSAG IIGM/SHRAPQILFFIHFSTVSAGINES*V CFYCHILEVPSKEGILES*CISEAAH
4779	12830	A	5662	3	756	GAISAHNRFLGSSDSPASASQEHWGT ETLAH*RSQLTATSASWVQVILLPQPPKN TGAQKHWPTGEAKEHCVSDDSESTLK AGGQHRIKQGGNSSSGAREPAPNILNSR RSWWTLVAKAAAVTVIIRVILMAAILRG TLAKEVNWWVLDLTDKNEAADPRAR HKDSPSPHQTEPSWLHSVDPTPGPQVE LPASPTMCAGTSQPLVSRWDWSPWSRK RHIIAPSSHNKYAGESFPGIYDAIFDIEN KANRLAWKEVKKHISIAAFTIQAAGT LKEVL

4780	12831	A	5663	2	773	LANFCIFSRDGVSP*WSGWSRTPDLR*ST RVGLPKC*DYRREPPHPGLLPVFSSHFA FGLFQRRRLFCFFA\FLRQSLALVTQA GVQ\WHDLGSLOPPPGFK*FSCSLLSG WNYRCVPPRQANFCIF/M*RRDFTMLAR LVSNS*PQ/CDPPTSASQSAGITGVSH/H/A RLAFVS/CYTHHTHTHTLA*IPFSPVFP NSLSPPLQQGFCPHHCTELTSYLIKITNPV HVIRPNGHSALCILVQVSAPLHSWLSPLL E
4781	12832	A	5664	2	415	LDPGSLAGFTSYIQFMYDEFVEEYEPTK ADSYRKK/VAQDGEEVQIYIINTAGQEDY TAKDNYFHCVFVSITEMESFAATVDFKEQ /ILRVKKDENIPFLLVGNKSDLEDKRQVSI EEAKNRAD*WNVYVETSPKT*AN
4782	12833	B	5665	151	1312	MMGGRIITGGIPGEAAVWGCSRPTAP SVFPPPPAAAAAAAVSSGNLRLHPGQV PRVLSREGGLAPRRGCPSKSGGSESTR VPRAGPRGESTGDRDPAPPPGPPSSSHHP SPLRIERKADKPPENSGESSHDVASREQP LVLEAHFRWAILLACHSMPTVGRKQV NNEIKTEIKKFFETSENKDTTYQNLWDT AKISFFPDFSYNFFMPISVLDAGGGSETA KHHHQDVHEIQPHIEPQISLGSFEHPFGS CTIKEGTYRKRVLVDGEEVQIGILETAGQ EDYAAIRDNYFRSREGFLCVFSITEMESF AATADFREQILRVKEDENVPFLLVGNKS DLEDKRPVSVKEAKNRADQWNVNYVE TSAKTQLMLTRHKPGTSSQX*
4783	12834	A	5666	3	955	LLLLLLLLLLLLQPPRLPRHPSDSSFDRSR RGAFAQATREYPPGGATQPRLEPSGRR TGSRCFFLILWRKLRHKMAANKPKGQ NSLALHKVIMGGSGGVGKSALTQFMY DEFVEDYEPTKADSYRKKVVLVDGEEVQI DILDTAGQEDYAAIRDNYFRSGEGFLCV FSITEMESFAATADFREQILRVKEDENVP FLLVGNKSDLEDKRQVSVEEAKNRAEQ WNVNYVETSAKTRANVD/KEWPFLKTR WWNTCKYISSHCPRPAPVSRKTAHWAE VFFDLMREIRARKMEDSKEKNGKKRK SLAKRIRERCIL
4784	12835	A	5667	1	635	MAANKPKGQNSLALHKVIMVGGGVG KSALTQFMYDEFVED*EPTKADSSRK RVVLVDGEEVQIGYPLDTAGQEDYAAI RD\NYFRSGEGFLCVFSITEMESFAATAE FREQILRVKEDENVPFLLVGNKSDLEDK RQVFSRKRQKNRAEQWNVNYVETSAK TRANVDKVFFDLMREIRARKMED\YYL NGTKNTKRLAERIREGGCIL
4785	12836	A	5668	2	178	WGFTMLARLVLS*SQVIHPPWLPKVLG LQALGSGSLHRSFFISVKGSSGFTAPSRR L
4786	12837	A	5669	208	339	RGQRLPVSARKWLLGTEEAWALR*STRLS LPKCWDYRHEPPCPAH
4787	12838	A	567	718	971	
4788	12839	A	5670	73	269	DKIFFFFF*DRVSLCRPGWSSVARSRLTA TSASQFKQFSCLSRPSSWDYRHVPPRPA NFCIFSRDR/SFTMLVRLVLNS*PQVIHLP RPPKVLGLQA
4789	12840	A	5671	1	586	KKPYECKEKGAFSSGSNFTQHQRHTG EKPYECKEKGNAFSQSSQLKHQRHTGE KPYECKEKEKAFRSGSDLTRHQRHTGE KPYECKICGKAYSQSSQLISHHRIHTSEK PYEYRECGKNFNYPQLIQHQLYW**N RIYEMCREAFNYGSKQNLSC**FL*IE*C/ SKHFICGLQLIQPGKNNVGEILYE

4790	12841	A	5672	2	355	LFLSFLFFSFFFFFETGPHSVAQAVVQWL NHGSLQPQLSGFKQSFRLRLLSG*DYRC TPLRLASF*FFVEMGCHYVAQAGLQLL DSGDLPASASQRAGITDVSPCIWPPMSC YVKRT
4791	12842	A	5673	921	1086	TQPWYRHGGGGPKTLRORSWSPCQAYH VPHACPSHHKNLSSRPRWCPPNATNML LSLKALQPPTLLSPLP*QVCRQGKNPPKQ RCRGP GATHHIPVHL WHSGWPLLHTLPA RISAVQPSFPPKETLGQAEQNRVWVPL GPGKQVLRERPLSHQREKREAQLTPRLL ARRPQAGEAAAARRQGKGTAEGERG**D GPSKPSLVRARVRKRAGPKQGPSASA*P GP*STPNPPTTQGSHPREQAPAPTPMSS EENVLSSQQTARP/RPSPGTGMGVGVLK PFVSVPGALAKLTMCMPMHVLHITKTCPA AQGHGVHRMPQTCC
4792	12843	A	5674	2	70	
4793	12844	A	5675	2	118	
4794	12845	A	5676	446	756	ISFFLSFFLSFFFFFEAESRSFTQIGVCSGTI SAHCKLCLPGSHSPASAS*VAGTTGAR HHTRLIFLYF**KTGFHRFSRDGLDLL/NL VIRPPRPKVGLQA
4795	12846	A	5677	2	276	LRWSFSLVVQAGVQWCDLGLSQPPSGF K*LSCLSLPSSWDYRSAPPCPANFVFLVE TGFLHVGQA\CLELLTSSDLSTSAS\QSAG ITREQ
4796	12847	A	5678	60	235	VRVLQIYHSLRLPGSHHPPRGDRLQGRG FLTACQPC*STYC*TFPPGVLGNTGRDLL L
4797	12848	A	5679	1	2059	MSSQEVTFEQRPEGDEGGAVELSRQQTQ QERRRQLGQTQLMYKWAKPKICSEDL GAVKLPASGVKTHCPPCNPFFKTNNST CQPCPYGSYNGSDCTRCAPGTEPAVGF EYKWWNTLPTNMG/TRPFSVGSTSSSTR/C MTGWEVAGDHIYTAAGASDNDFMILT VVPGFRPPQSVMADTENKEVARITFVFE TLCVSNCELYFMVGVNSRTNIPVETWK GSKGRQAYTYIIEENTTSYTCAFQRTTF HEASRKYTNDAAEIYSIICHPCY*MPWAS YAGPCAQKASEEGSSCTSCPAGYYIDRD SGTCHSCPPNTILKAHQPYGVQACVPCG PGTKNNKIHSCLYNDCTFSRNTPTRTFN YNFSALANTVTLAGGPSFTSKGLKYFHH FTLSLCGNQGRKMSVCTDNVTDLRPEG ESGFSKSITAYVCQAVIIPPEVTGYKAGV SSQPVSLADRLIGVTTDMTLDGITSPAEL FHLESLGIPDVIFFYRSNDVTQSCSSGRST TIRVRCSPQKTVPGSLLLPGTCSGDGTCG CNHFLWESAAACPLCSVADYHAIVSSC VAGIQKTTYVWREPKLCSGGISLPEQRV TICKTIDFWLKVGISAGTCTAILLTVLTC YFWKKNQKLEYKYSKLVMNATLKDCD LPAADTCAIMEGEDVEDDLILTSKKSLLG EDQIYHQEDS
4798	12849	A	568	480	683	
4799	12850	A	5680	1	1098	
4800	12851	A	5681	143	571	
4801	12852	A	5682	3	355	FEIGSCSITQAGVQRHD\LCSPLP PPPGFK QSPRPSLPSS*DHRCAPPCPASFCIF**RQ GFHHVGQAGLELLTSGDPPALASQSAGI TGVSHQAWPPFGFLDRTLIVSQKTNTN RP
4802	12853	A	5683	1	2472	RYDLALWPRLECSGAITARCNLKLLGSS NSPTSTSCI/C*GYRLIFFKFFVDTGSCYV AQAGFKLPASSDPPPKMLR\YRP\GHHA R/LCLTVNRTNVP

4803	12854	A	5684	5	298	TGSRVAQAGVQ*H/DYQGSQPPPPRP M*SSHL.SLPRNWDYSHTAPHPAKLFFFL DTGSHYVAQAGLKLGGSDPSTSASQSA GITGMSHRIQPHISF
4804	12855	A	5685	9	320	FIYLF/RDGVLLCCPGQSAVAFLRLTVTS T/FL*SPDGELLTL*STRLGLLKWWDYKG EPPRPVFLFCFLNV**RCSLAMLRLVLN S*AQAIFLPQPSKVLGLQG
4805	12856	A	5686	2	438	FFFFSRLNFEFYNNKPFCTNPGPRGPPR VGPPFAPRRGAFSLPQGGPF*SLFSPRPN P/SGPLVRPGLPPTGALPCSVR*VDRSPLP YMVSPGPPGGLRGAGPGPVHPRGPEAP PRARGRGREGGPAESVTRFPWQLRGGH FQP
4806	12857	A	5687	243	377	
4807	12858	A	5688	1	867	
4808	12859	A	5689	1	874	TVLAFADGCGVLAHGRSRSYGRLGRRP YSREPGLWSRGPFGTMSDEEARQSGGSS QAGAVTVSDVQELMRRKEVEIAQIKAN YDVLESQKGIGMNEPLVDCEGYPRSDV DLYQVRTARHNNICLQNDHKAVMKQVE EVALHQLHARDMEKQARDMAEAEHKEA MSRKLQSESQGPRAFAKVNISPGASP ASIAGLQVDDIEIVGVSGSVNTQNFQSLH NIGSVVQHS/EGGPGTHHPTFCLYEPDYS RDLI*KPLNVTVIRRGKHLRLVPTRW AGKGLLGNCNIPLQR
4809	12860	A	569	811	1481	GNGILLMVHHHCDA GTVIMRADRFIPGE DQKNRVLVNTVLVRISRAVDGKHL SAGI RHTVFRICHNACTQHRGLFRGFNVFGEF LRFAYILIVKENADQCAGFVGHIELGEID RVMQALPDVEQAVTHACVINQAAATGG DARQLVGYLVVSQSGFNINGNRHLTTIN PVGFPADK*GFPLMLPRVSGRNQHRIS/R VYLPCTATTLLRPGNGPPSSVRPRR
4810	12861	A	5690	30	512	TPVRDMAEAHKEA\MSRKLQSESQGP RAFAKMNSIEPRLPQPSIAGLQVDDIEIVE FGSVN/TPQDFQSLQNNGNVVQHSE GK PPECDO*SARGEKH\QLKLVPKNAGPGK GALLGC\NIIPSAKDELSPRGNSKQEKHPS PCPRTWVLGDFPTCPSSPLKA
4811	12862	A	5691	945	1358	KKQNFYITVHGFSCCLGRGKGQDRD GW ESRDGRFLSRSLTFPQFAIIRLVGQKEFS MLPKSFTLQILPRGSLSLDPQEQLSK*S MPHRAVQSPSRHALGNPKTAREGSAPRS PLTGRPRPPVAAG*CRACRGAPQVARPP QGDQHRGFRGAHSDWRVWRGWASPSL LPRSSSSSGIANQAS\VPESPERS/RPAL GGRSGSSPCRRP/PPKPPWRGA\GS*SGT WRRWLAGWRTRRPRAPGCARPARPGPP SWPSRPQTGLAAGLSGAPSVPCRRCTP RRSRPPLPARWTPPGAPACRRRPWS*SP GSTTAA
4812	12863	A	5692	3	316	FFFFFLRQSL/DSVAQAGA QGHNPGLQA PPPRFTPF SRLSLPSSWDHRRPPPCPTNFS AFPVETGF\TVLARMVISIS*PCDLLTSASQ SAGTTGTSHRARPIIFK
4813	12864	A	5693	2	769	LAIYKHAGGVFSFILLQTLNTYGPQD T KGSVLAYWRLPGLCHIIYLVKQSAKDFFS YYDINRQSVSKL\QNVEQLPPDEIKELRQ T\TMPAGVDKSSTDQKYVQAGRRLGKVI QQSRLNCFPLVSYIIEI\CLFILWRHLEY L\LHCMPTD\SQKSLFASR\TLF*KQKDCQ GFPSPQETQS*DF*KVGLAYSEANHGF*T QLSGLMPINGFLENHYPKRNFLDIEGL/YI SKVRFFGYSFIIQALVRRIRGLLRISRN

4814	12865	A	5694	189	424	TLPI SIYQSSPSGFHNYQFLASGVGATLPI TPHPTS/ELPYRVSPSPSPRPPS*FSRTF QPP/V/PGPAH*PPDEIVEPG
4815	12866	A	5695	243	1660	AEPDTSPI*TPGQSGSS*GNTS/EPWTVTP PGLKMQQRVLCCTL*PP/RRLPVC RPAA G*TRLDRA*ESGHGPAVPREATGVPGA LPAQASVRSIW PALATCVATTVQTST/DA EVARQG/ICPAPHPAYPPA*PALCCPARA DPRGRVLQ**ADAVPGPAI*AVHRAVS HPGGAQC PHNPPAPQARVPRETCLPAL QLAAPVLRGAGATAASAPTEEEEEACLE EEEEEDSDEEDQ RSGKDSEAWVPDSEE RLILREEFTSRMHQRFLDGKDGDFDYST VDDNPDFDNLDIVARDEEERYFDEEEPE DAPSPELDGD*WPPFPFPAPSPSPTRQLI PGLLSDPFSRGTS/AAVPHNPHTPPSHWV *SHLRQPPPLFLGFPFSSLPPCLPLSFLV SVWASFCLFLSFCLSPYPRSLFPVLWLAV SPFLPLSLCLRLCLHRAAQGESPLAGGQ LAGPFVAGSGQFGSGADP
4816	12867	A	5696	7	558	GWLDLGLTKVCV*NAEVP TCEWVR LMC MSVCASK/CGGGCGCLC/MASGHCECLG MCWSL*ACVFLSKNECLCVSLGTCQCL CLCVPVSHHLCIRVAHAASLCAMVCQC LCVDGWPM SDRQGRPGWLDPAHLPSG SLALWVRVTEAFCGLKTGCSG SALRVA GGLPSLLPFRLVKRTPGGQGAV
4817	12868	A	5697	272	1146	GFLGLEGPLSSSPQVAWATVPLWAQLQ GGLAGSCLGQILAPGPSEARDWWASLA GP*ERVEGADRPWRFHLSTPEALVLAAG R/SKARASDPGRSSTLSLLHVLKVEKRR VNLPRVLSMPPVAGTACHAYDREVHLR CELSPGYYLAVPSTFLKDAPGEFLLRVFS TGRVLSAIRAVAKNTTPGAALPAGEWG TGPIPG/CSWKFGQTAGGHKNFASYPTN P/CVPLFGSPKGPGRVCVRITLHQHCRAIS DTEFHPIGFHIFQVPEGGRSQDAPLLLQ DPLLSCVPHR/TPRR
4818	12869	A	5698	281	535	
4819	12870	A	5699	1	1014	
4820	12871	A	57	1	1513	
4821	12872	A	570	961	1627	LPHPAVAVIQNVRSCRGFHGSPTLVVIPG NPRHSRTITLIKLLHGIIVIGRVKFRHPG CGQAKFIFFTLRQNKPNVVS GSTGRPKG VMVGQTAIVNRLLWMQNHYPLTGEDV VAQKTPCSFDVSVWEFFWPFIAGAKLV MAEPEAHRDPLAMQQFFAEYGVTTTHF VPSMLAAFVASLTPQTARQSCATLKQVF ADLCREWQQLTGAPLHNGLCVFLMR
4822	12873	A	5700	155	2916	QKKAAGVLP GKFGTVFPWQRAGQQFQ TDKAKGLTFLGGKAVHLS*/HLEREQPPR FAQPGTYASRWKALEEMEKQQREQVDR NIREAKEKLEAEMEAARHEHQLMLMRQ DPGLALVSCMQQGQSMRSRPPKVKFHL YELNLTKLQSLGSRSLRWKDSFPWGEE AGGKRPLVLSALHRSPSLLLLFVKHPS KGRPDCTVQRSPKPTKSQLLDLRECISI HVGQAGVQIGNACWELCYLEHQIPDG QMPSD

4823	12874	A	5701	37	1542	PREPTPPA/PPRLQRTTRTRRCGFTIDIKSF LKPGEVKTYTQRCRLFVGNLPTDITEEDF KRLFERYGEPSEVFINDRGRFGFIRLÆESQ NPWAEIAKAELGRAPFLKSRPLRICFRL HMGAAFDCSRNLFFSLFFQLSCLEQ\AFS QFGS\VEKAGVVVDDRGR\PTGK\GFVEF ASKNLPATKRLWKRCCDGAFLLTTPR PSPLWKPMEQFDDDEDGLAQRLLMHKTQ Q\YHKER\EQPPRFCSTWGHLKFEYQSR WKA\DEMEEKQREQVDRNIREAKEKL EAEMEAARHEHQLMLMRQDLMRRQEE LRRLEELRNQKLQKRKQIQLRHEEEHRR RE\EDMIRHQ\KQEGLRQEQEGFKPNYM ENREQEMRMGDMGPRGAINMGDAFSPA PAGNQGPPMMGMNMNNRATIPGPPMG PGPAHGTRRSRKYGNSQ*QIMEQCTND RFPQGPPSQMGSPMGSRTF*NPLKHPM SGVGPVSGGPGGFRGSP\GGNFEGPNN RRRY
4824	12875	A	5702	81	334	HNVHC*VPCGEVGSVIHCWWNGDNLI* PS*KVSWKYESRAFKTSRPLDPTLLGI QSK*/YNKGHKDLDIRILITALFVVTKKL
4825	12876	A	5703	3	448	WGPEP*/PTRPTLDEGPGCPGCGCSPLP MGPPRGRGPPTSMSLLCRWPGVPLGSPP GCPPRARVKLFPHPGPDVSTSPWAGHG AHQDP*GPVSGSESP/PPAGHWAPPASTS SPKIQAGL*PE\GMRTAQPPSAVAGSPQG SFRHKEGWG
4826	12877	A	5704	1	206	GSL*SPSPRFKRFSCLSLLSSWDYKHVPP HLANFCIF*RDWVSPCWLGWSRTPDLH LSWPPKVLGLPS
4827	12878	A	5705	32	401	AFPDKLPWNFRLCQVNRGISEWAGMS EMGMSDIQLSVGKLVAR/CWLQAE*G* QFTKQER/CPSLTRSRWHGQPREGQAER PFLCAPPEGAPIGFLR*HHLRVQLAMAWI KFKMLGQSPLPYI
4828	12879	A	5706	252	415	PFCRPPRADSVTKQER/CPSLTWIRWHGQ PQQGQAERPFLRAPPEGASTGFLRQHH
4829	12880	A	5707	2	164	FFLYLFLFLRWSL/DSVIQAGVQWHDNI CSLQPLPPGFK*FSDCSTVLQPGRQSETG LKYFFITV*EMESCSVIQAGVQWHDNLF PATASWVQVILRLHCTPAWATE
4830	12881	A	5708	1334	1706	VRPHEGARAGPGGRGRGDPGLGARALP QPRVAVAGAACOPPSRLRHAGHRGPMV HAVGGSTFLGFRQ*LSSHSTRQCPSRD SVWGLQPHISLLHCPSRSGP*GPHPCHL LPGHPGISIHLL
4831	12882	A	5709	57	376	KRGSLSGCPRPRVQW/RKTLAQLOPSKL PGLK*TFP/CLSLLK*TGHTCAPLCPNFF VFLTYLIEM\GLTMLPRLVSYFWPQVF SLASQSTGITGVSHHALAWWSMQ
4832	12883	A	571	803	1403	FNRRILKINGLTREQTSQVQQIRQALSA LPLPVNRLEEFDNCREAWRKCAWLKD IESARLOHNQAYTEAMLEYADFFRQVE SSPLNPAQARAVVNGEHSLLVLAGAGSG KTSVLVARAGWLLARGEASPEQILL\GL VAKPLKRWTSGFANGYIPKTLPHARFMR /*ALHIIQQGSKKVPIVSKLENTACRHEL FIA
4833	12884	A	5710	9	264	PCPPNTIN/CPLGLRLPC/PPHLCPSLCLGK VGGP*KVPQTPSLGETELEQKKPPVMA SGWTGGRNGGWEKSLRGKERRVFSQEG FP

4834	12885	A	5711	124	770	QYFPTATHGNVKKSLLSGKASLKRHLRV CCSCLFYIVQKQPKLNKTLFRQSYICDQT TFRKSKGIINIKFIFFFEMESRSVAQAGM QWRNLGSLQ/PPPPGFMPPLSCLSLSSWD YKRPPPCPANFFVFLVETGFTVLARMVSI S*PCDLPASTSQSAGITDVSHHAWHIKFK PEVTWRERGEEHVDRHIFRLDIRFTDT HFIKKELMRSDTL
4835	12886	A	5712	2	232	CLSLSS*YYGRMSRPANF*FLVETGFH HIGEAGLELLTLGDPPASASQGAGITGVS QRGQSLFAFLMSSTSFCK
4836	12887	A	5713	1	242	QAGVQWHDLGSLQPLPLGLKQFSCSLP SSWDYRRVPPRLANFC/DFLVETEFHHV QADLELRTSGNLPTSASQSAGITGVSH HA*PKVLGLQV
4837	12888	A	5714	1	133	ERLRYFRVEHLDQRLKAAENKFSYCLM TWLKCWFWCLEKFIKFLNRNAYIMAIY GTNFTCSARNAFFLLMRNIIRVAVLDKV TDFLFLGLLIVGSVGLAFFFFTHIRI VQDTAPPLNYWVPILTVIVGSYLIHGF FSVYGMCDVTLFLCFLEDLERNDGSAER PYFMSSTLKLLNKTNKKAES*RLRYF RVEHLDQRLKAAENKFSYVPHDLAQMR LLVPGEVHQIP
4838	12889	B	5715	166	969	MGSACIKVTKYFLFLNLIFFILGAVILGF GVWILADKSSFISVLQTSSSLRMGAYVF IGVGAVTMLMGFLGCIGAVNEVRCLLGL YFAFLLLILIAQVTAGALFYFNMGLKQ EMGGIVTELIRDYNSSREDSLQDAWDYV QAQVKCCGWVSFYNWTDNAELMNRPE VTYPCSEVKGEEDNSLSVRKGCEAPG NRTQSGNHPEDWPVYQEGCMEKVQAW LQENLGILGVGVGVAIHELLGMVLSICLC RHVHSEDYSKVPKY*
4839	12890	C	5716	300	347	MIHLPRPPKVLGLQA*
4840	12891	A	5717	316	797	APALPQPTGLAASSHMVQVPLWICKLS HSKSRNSPQLFF*VFQFLRRSL/SSVPQAG VQ*HDLSSLQPP/PPGFTPFSCSLPSSWD YRCPPRPAPKFFLYF**RRGFTMLARMV SIS*PRDPPASASQSAGITGVSHRARPPPP QFFIQLPLYNIHTLEGR
4841	12892	A	5718	2	519	WHPQSDVQAEVQWRDLGLLQSSPP/GF TLFSCSLSSWDYRRPPRPG*FLYF**R RGFTVLARMVISIS*LHDPPALASQSAGIT GVSHRTRPGADL*PRVQKPRASLGG*NH MCNMKSLPTGQTRLNKGRRLGHFDPDW RWKETPGL*CFHGNFCGALKAGRAHLD GQGR
4842	12893	A	5719	1	663	
4843	12894	A	572	3	1642	
4844	12895	A	5720	1	1561	MATSTGRWLLRLALFGFLWEASGGLD SGASRDDDLLPYPRARARLPRDCTVR AGNREHESWPPPPATPGAGGLAVRTFVS HFRDRAVAGHLTRAPELRTFSVLEPGG PGGCAARRRATVEETARAADCRVAQNG GFFRMNSGECLGNVSDERRVSSSGGLQ NAQFGIRRDGTLVTGYLSEEEVLDTENPF VQLLSGVVWLIRNGSIYNESQATECDET QETGSFSKFVNVISARTAIGHDRKGQLV LFHADGHTEQRGINLWEMAEFLKQDV VNAINLDGGGSATFVLNGTLASYPDSH CQDNMWRCPQVSTVVCVHEPRCQPPD CHGHGTCTVDGHCQCTGHFWRGPGCDE LDCGPS*LAAQHGLCNGSTGLSAVDAG WATGNSCSEECPLGWHGPGCQRPCKCEH HPCDPKGTGNCVSVRVKQCLQPPEATLR AGELFFTRTAWLALTLALAFLLISIAA NLSLLSRAERNRRLHGDYAYHPLQEM

						NGEPLAAEKEQPGGAHNPFKD
4845	12896	A	5721	1119	2008	ALHPPAQGELFCDYFKDPSWSEGPQSPP LTRLAPHPQTQCTELSGGRRGSAVLEEC VPTPASAHLAASPAEAGTAGVWR*RHH F/HSTGLLGPR*LSMSLLMS*CKAGRCP GEDCPRPLPGCSLSPLERKLCFSSA*GPA SFLGGLTAKASGCSSLRPHSHIQGHGL WEKL*VPARRAGGGVCFKSA/PHLQSL** KPSSKASKREG*Q*TLPSATIGELPFK*HA PKHLCNAQGFLCKIH*HHK/QTANAIA* GGPGSLEGTLLRRPGSPSSLGVGSGKTEV NSQNCRH LGREGVS
4846	12897	A	5722	3	444	FFFFFLRQSL/NSVI*AGVQ/QPLPPEFKRL SCLSLPSSWDYRCAPAHSANFCIFSKD/M GFTMLTRLVSNWQQ/CELPTLASQSGIT GVSHHTQPIYH/FIFVETEFHHVAQAGVK /PPSLK*SSRLSLPKQWNYSHPLYPALF NETFFFK
4847	12898	A	5723	1	6738	
4848	12899	B	5724	107	467	MRLHETLKQCQDLKTEKSQMDRKINQL SEENGDLSEFKLREFASHLQQLQDALNEL TEEHSKATQEWLEKQAQLEKELSAALQ DKKCLEEKNEILQGKLSQLEEHLSQLQD NPPQEKGEALX*
4849	12900	A	5725	149	577	GLLSTRPISCRHTL*GPLQSSWEYMDVP WDLRASEGNKLLYSARDCTLQQIHVSF QKLDVEEPDSANSSFYSTRSAPASQASLR ATSSQSLARLGSPDYGNSALLSLPGYRP TVTRSSARRSQAGVSSGAPPGE GTTGY
4850	12901	B	5726	24	219	MPRSSRTKSCRSSCGAWSSCMKENKELR AEAERLGHELQQAGLKTKEAEQTCRHL TAQVRS LGGTX*
4851	12902	A	5727	272	683	
4852	12903	A	5728	1	406	
4853	12904	A	5729	211	5508	IWCLFPLSVHMG LIYSQKCLEEKNEILQG KLSQLEEHLSQLQDNPPQEKGEVLGDVL QLETLKQEAATLAANN TQLQARVEMLE TERGQQEAKLLAERGHFEEKQQLSSLIT DLQSSISNLSQAKEELEQASQAHGARLT AQVASLTSELTTLNATIQQQDQELAGLK QQAQEKQAQLAQTLLQQEQASQRLRHQ VEQLSSSLKQKEQQLKEVAEKQEATRQD HAQQLATAAEEREASLRERDAALKQLE ALEK

4854	12905	A	573	114	5270	SARSASFRPGRPAARRPKCSHPLVPDGV PECCCKCVHPASTNFPRTSTAARHSHHN DGSTSTMGRWQI/VGYLVSQSGLPLDT SALQAQLRETLPPHMPVPEVLLQLPQLPL NANGKLDKALPLPELKAQAPGRAPKA GSETIIAAAFSSLLGCDVQDADADFFALG GHSLLAMKLAAQLSRQVARQVTPGQV MVASTVAKLATIIDAEEDSTRRMGFETIL PLREGNGPTLFCFHPASGFAWQFSVLSR YLDP
4855	12906	A	5730	111	407	NLLRTMIFWFGFEDRVWLCCPVLATSV LTATS/TFPGFKQFSCSLSSWDYRCIPP HPGNLWYF**RQGFTMLARLDSNSGPQA IHPPQPPKVLGLHV
4856	12907	A	5731	3	613	GLRALRRGQGLPGL*CCSRPQPSRAQG HPSMGGPMQVRVTPPRGMASVGPQSYGG GMRPPNSLAGPGLPAMNMGPGVRGPW ASPSGNSIPYSSSPGSGYTGPFGGGGPPGT PIMPSPGDSTNSSENMYTIMNPIGQAGR ANFPLGPGPEGMAAMSAMEPHHVNGS LGSGDMDGLPKSSPGAVAGLSNAPGT DDGEMAA
4857	12908	B	5732	134	471	MYAKGGKGSAPVSDSQAREKLALVYVE YLLHIGAQKSAQTFLSEIRWEKNIMPSPG DSTNSSENMYTIMNPIGQAGRANFPLG PGPEGMAAMSAMEPHHVNGSLGSGD MDG*
4858	12909	B	5733	223	692	MEPSRAQGHPSMGGXMQRVTPPRGMA SVGPQSYGGGMRPPNSLAGPGLPAMN MGPGVRGPWASPSGNSIPYSSSPGSGYT PPGGGGPPGTIMPSPGDSTNSSENMYTI MNPIGQAGRANFPLGPGPEGMAAMS AMEPHHVNGSLGSGDMDG*
4859	12910	B	5734	228	292	XLARDDHERVMGRQPRASLRA*
4860	12911	A	5735	1	1753	MYAKGGKGSAPVSDSQARENLSAQAA TELTSLDRLALYVVEYLLHIGAQKSAQT FLSEIRWEKNITLGEPPGFLHSWWYGL GCCGVFWDLYCAAPDRREACEHSGEAK AFQDYETPERPAHRHGNAGRAGSSSGMI DVGGSSDPQILRPTTPVCSLTNASSLSHG AGHLQRGGGTPQSAAAAPSPVMGSMAP GDTMAAGSMAAGFFQGGPPGSPSPHNP NAPMMGPHGQPFMSRPFPGPRPTLRD GSQPPAGPPWVPSPPSGAMEPSRAQG HPEHGRPNARGVTPPRG/MGPAWGPRA YGGGMRPPNSLTRPACLPNMNMGPRK FVGPAWQPPVEYSIPYSSSPGSGYTGP GGGGPPGTIMPSPGDSINNSSENMYTIM NPIGQAGRANFPLGPGPEGMAAYG GMEPHHVNGSLGSGDMDGLPREFPQAP VAGLSNAPGTPRDDGEMAAAGTFHAPS SQSENYSPGMTMSRVNWAAPGALCG PRLPRRCLRAKGLKVTPSGTLDLAN QGLPMLGGPTRKTLTILKTQGPRETFFS VWTLPAICILVERKALWGGPSSPGRQG GGAH
4861	12912	B	5736	315	458	NGPSRTQQPSLTDVLYCPEAIVSLVGVL RLAACQEHKRAPEVYVFT*
4862	12913	A	5737	202	402	
4863	12914	A	5738	1	3156	

4864	12915	A	5739	1	1470	MAPEENAGTKLLQSFERRFLAARTLRS FPWQVGGGASGEACGACGSPGADGMG LPAETPGAPATEGSHSALPTHSIACFNVP VNAPLRFSLPSTRSLEAKLRDSSSELL RDILQKHEAVHTELLDELYEALAETLMA KESTQGHWSYLLPRYPSCDKVKTPRKA RSHSPSTAIHSHGTTGLVTWDAARYLAE WAIKNLAAFTNRTVLELGSGAGLTGLSI CKM/WPPDIIHLHDCHSRVLEQLRGNVL LNGLSLEADITANLDSRVTVAQLDWDV ATVHQLSAFQPDVVITADVLYCEAIVSL VGVLRRLAACWEHQWAVEVYMAFTVR NPETCQLFTTELAPSTCEGVLSLSHLTDK NTRTHRGQETPELPQIAARPPGFSFTVH PSPPLPPDFAPAPPEHSPSWQPCAKMHPQ QPLPAHRDMDDPVPVHVGGQPVNYRANK QASTRRHTGFHDRVPHNLAQEAGQAWG SGLSSQHFRRRLRQED
4865	12916	A	574	1	2967	
4866	12917	A	5740	2	413	
4867	12918	A	5741	3	231	
4868	12919	A	5742	83	1503	SWNTPYNHWATKQ/LSSHYSRGGAKEYE GEAVKQSLVESYTHPNSNETERSANIDT VMNWFTKEDFDFVTLCYREPDNVGHRF RPEAENRKLMIQQIDRTIRPWDDHREET QCQDPLSNYIKFMDLVKFDIVGYGGFG MPLPKLGQEEALYQALKNAYPHLHIYK KEGFPEHFHLAKHDRVLPIVYANFGYS INGISLLYFYTHLCDKYFNVHFFHEPLSL WRAQTTPSLSHRYISLVRHMDATNLDAS EAQLPGSPYPDSAPGPANLDSTQDLQR RLSWPYPRPRPPNAHPGALQPAPRTLLL TLPPGPAPSLPPTALGPPPLQSRPGFRPV SRQRCGPAHFMAPEENAGTELLQSFER RFLAARTLRSFPWQGGGGAERPAGLA GVQGGTGWVSVLKPPALLPREFLGSPRS GPRDPVPVPGA WPKSLAPLLPRELAAED EGVSTALGGQTRARCGVQFTIIFTF
4869	12920	A	5743	266	477	DFSLSRPHGA*KQN*ETHQILSCC/GDILH KTVK/HSCVCEAPVRQICPVLSLRTHQK ARGCPHRAFGRAV
4870	12921	A	5744	148	592	SHVALGQLGWLTRAVRSSWRWELCVSS TGSGLPAPSLKQPKSCRCW*EEVKTGSC VGISHWQTST/VFPQAVFHLPPVLLPRSL ACLSCPRGCAQIR/CQ*TPPYPLFIILTYS FGMLSSTVLIRHILETNKKEKSLAAEGV RHLQVS
4871	12922	A	5745	164	667	ERGTYICQITTSLYRAQQIQLNIQASPKV RLSLANEALLPTLICDIAGYPLDVVVM WTREELGGSPSPSLWSSFSKPQAKALAG TYSISSSLTAEPG/RLQVPLYTCQVTHISL EEPLGASTPGCPTRAENSLGSHLCQQSLP SCTDVPWGF RDGQAPNRTWAASG
4872	12923	A	5746	1	790	VEELSKKLADSDQASKVQQQKLKVGQL GEWVWPLDKGGKLFSLWGRGGLVYK WFLLIYKISYATGIVGYMAVMFTLFLN LLFKIKPEDAMDFGISLLFYGLYYGVLER DFAEMCADYMASTIGFYSESGMPTKHL DSVCAVCGQQIFVDVSEE/EDH*EHRCS/ CFHEFCIRGWCIVGKKQTCPYCKEKVDL KRMFSNPYP LLGSLLGVGCGKKVLASVT CIWVLLGPSLLPPTRTCQTMNNKKIMKV MMRIKRMMDTDMAS

4873	12924	A	5747	1	1005	FRGRAVKMAAVVEVEVVGGAAGEREL DEVDMSDLSPEEQWRVEHARMHAKHR GHEAMHAEMVLILIALTLVVAQLLLQW KQRHPRSYNMVTLFQMWWVPLYFTVKL HWWRFVLVIWLFSAVTAFTFRATRKPL VQTTPLRVYKWFLLIYKISYATGIVGYM AVMFTLFGNLNLFKIKPEDAMDFGISLLF YGLYYGVLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCAVCGQQIFVDVSE EGDHETTYRLSCNHVSHEFCIRGWCIVG KKQTCPCYCKEKVDLKRMFSPNWERPHV MYGQLLDWLRVYVAWQPVIIGVVQGIN YILGLE
4874	12925	B	5748	99	236	XTTSTSTVTVTAPGPAATGSPVKKHRP LLPKETAPAVQVRVWNSSX*
4875	12926	A	5749	1	783	
4876	12927	A	575	1882	3402	LDASFWIPPKATQGMTWIFTFSSPSYNS S/CYAGWLKGSAPLQLSQPHHTAYIITS GSTGRPKGVMVGQTAIVNRLWMQNH YPLTGEDVVAQKTPCSFDVSQFFAEYGV TTTHFVPSMLAAFVASLTPQTARQSCAT LKQVFCSGEALPADLCRVWQQLTGAPL HNLYGPTAAVDVSWYPAFGEELAQVR GSSVPIGYPYLGRPDLTASRFIADPFA PGERMYRTGDVARWLDNGAVEYLGRS DDQLKIRGQRIELGEIDRVMQALPDVEQ AVTHACVINQAAATGGDARQLVGYLVS QSGPLDTSALQAQLRETLPPHMPVVL LQLPQLPLSAKAGCPAAQVPRVAQVRV CAVLEDLGDIRESEGERKQEADAVLGTQ DTPRVTSQPNGLLLKIEPQENVKIEGQH GLVWLCVAASPVLVRVTREKEEKKEE GNNMRFTSLVSLVNIVRALEKKVLDI MFNNCRTGVQAITLSHRRALAIALAR YIKSALYDG
4877	12928	A	5750	1	1626	
4878	12929	A	5751	1	542	CGWNTGYCD/YPCQQAHWPEHIKSCTQS \ATALQQGADVEVNTEPLNKSSQSSSST QSAPSETA\SASKEKETSAEKSKESGSTL DLSGSRETPSSILLGSNQGVSXKRCDKAT LLCPNHHRPPAAPQLPRPEVPFPEL*NSR LSPPVFKKKGIRRVPIPTSTSTKSLPKE SRLDTFWD
4879	12930	A	5752	1779	3628	MEISEDVYTAUGHSDSESDSEKSDSSDSEF ISDDEQKSKDEPEDTEDKEGCQMDKEPS AVKKKPKPTNPVEIKEELKSTPASEKAD PGAVKDKASPEPEKDFSGKAKPSPHPIK DKLKGKDETDSPTVHLGLDSDSENELVI DLGEDHSGREGRNKKEPKESPKQDV VGKTPPSTTVGSHSPPETPVLTRSSAQTS AAGATATTSTSTVTVTAPAPAATGSPV KKQRKLAIPKEVTAPA\QVRVRVELIK*SF KRPPKSGTCRRCSVSSSSSSSKTSSSSHQS SQGTRYQTRQAVKAVQQKEITQSPSTSTI TLVTSTQSSPLVTSSGSMSTLVSSVNADL PIATASADVAADIAKYTSKLMDAIKGT MTEIYNDLSKNTTGSTIAEIRRLRIEIEKL QWLHQQELSEMKNLELTMAEMRQSW EQERDRLIAEVKKQLELEKQQA\VDKTKK KQWCANCKKEAIFYCCWNTSYCDYPCQ QAHWPEHMKSTQSATAPQQEADAEVN TETLNKSSQSSSSTQSAPSETASASKEK ETSAEKSKESGSTLDLGSRETPSSILLGS NQGSDHSRSNKSSWSSSDEKRGSTRSDH NTSTSTKSLLPKESRLDTFWD

4880	12931	A	5753	2	1711	RSEDSEKSDSSDSEYISDDEQKSKNEPED TEDKEGCQMDKEPSAVKKKPKPTNPVEI KEELKSTSPASEKADPGAVKDKASPEPE KDFSEKAKSPHPKIDKLKGKDETDSP VHLGLDSDSESELVIDLGEDHSGREGRK NKKEPKESPQDVVGKTPPSTTVGSHS PPETPVLRSSAQTSAGATATTSTSSSTV TVTAPAPAATGSPVKKQRPLLPKETAPA VQR\SCGTSSSTVQOKEITQSPSTITLVT STQSSPLVTSSGSMSTLVSSVNADLPAT ASADVAADIAKYTSKMMDAIKGTMTET YNDLSKNNTTWKAQLAEDSQGLRIEIEKL QWLHQELASEMKHNLELTMAEMRQSL EQERDRLIAEVKKQLELEKQAVDETCK KQWCANFKKEAIFYCCWNTSYCDYPCQ QAHWPEHMKSCSTQSAYC\SSSRKADAE\ VNTETLKLSPSQSS\SSSTQSAFPRKRPAP SKEK\ETFSLRKAKESGSTLDLSGSRTPS SILLGSNQSDHSR\SNKSSWSSSDEKRG S\TRSDHN\TPSTQHGSRLLPGKESRAGTP FLGTSK
4881	12932	A	5754	1	191	MQK*ITAWAPAPMKIKIIPASPERKYSVWI GGSIWPQLST\FQQMWISKQEYDESGPSI VHRKCF
4882	12933	A	5755	2	1203	LSRRCQLSHSVLPPLRRRVSLPVAMEEEI AALVIDNGSGMCKAGFAGDDAPRAVFP SIVGRPRHQGVVMVGMGQKDSYVGDEA QSKRGILTLKYPIEHGIVTNWDDMEKIW HHTFYNELRVAPEEHPVLLTEAPLNPKA NREKMTQIMFETFNTPAMYVAIQAVLSL YASGRITGIVMDSGDGVTHTVPIYEGYA LPHAILRLDLAGRDLDYLMKILTERGY SFTTTAEREIVRDIKEKLCYVALDFEQEM ATAASSSSLEKSYELPDGQVITIGNERFR CPEALFQPSFLGMESCIGIHETTFNSIMKC DVIDRKDLANTVLSGGTMYPGIADR MQKEITALAPSTMKIKIIPPERKYSVWI GGSIASLSTFQQMWISKQEYDESGPSIV HRKCF
4883	12934	A	5756	3	412	SRFPEGLFQPFPGMKSCGIIHETTFHSH/I IKFDVAIR\KDLANTLLPGGNHQVSGAL LTGMQKEIHAPAAQATLRFKIIPPGSAS TRW/VGSVGSILASLSTFQ\QMWISKQE\ YDESGPLHSSIAKCFNLGLSQIA
4884	12935	A	5757	1	2297	MGRDWSLSLEEDRKMRESLEHARDL LNCCDQNAHHMDSEVQAEVVSEGDEE LIGKWSKAYCHRCEQKDDLKWEIIFKRE AEHKSLEILQPDHVVEKKNPGGGRNQST SSSWVGTVAEITIEAVKCKIQVLQQA DDAEERAE\RSQREFREERRAREQAEAE VASLNRIQ\LVEEELDRAQERLATALQK LEEAEL\SLADESERRY*RLFEN\ALKRL KEKIGTSREIQL\EAKHIAEE\AD\RYEE V\ARK\LVIEGDLERTE\ERA\ELAESRCR EMDEQIRLMDQNLKCLSAEEKYSQKE DKYEEI\KILTDKLEAETRAEFAERSVA KLEKTIDDLDTNSTSGDPVEKKDETDFG VSVAVGLAVFACFLSTLLVLNKCGR NKFGINRPAVLAPEDGLAMSLHFMTLGG SSLSPTEGKSGSLQGHIIENPQYFSDACV HHIKRRDIVLKWELGEGAFGKVFLAECH NLLPEQDKMLVAVKALKEASESARQDF QREAE\LLTMLQHQHIVRFFGVCTEGRPL LMVFEYMRHGD\LRNRLRSHGPDALLA GGEDVAPGPLGLGQQLAVASQVAAGMV YLAGLHFVHRDLATRNCLVGQGLVVKI GDFGMSRDIYSTDYRVGGRTMLPIRW MPPE\ILYRKFTTESDVWSFGVVLWEIFT YGKQWPYQLSNTAIDCITQGRELERPR

						ACPPEVYAIMRGCWQREPSNATASRMC TPGCKPWPRHLLSTWMSWARGPAQGLG VVSRTNGACPQHPP
4885	12936	A	5758	3	636	WAWNQAEEVASVNGRIQLVEEELDCA QERLATALQKLEEAGKAADESERGMKV IENRALKDEEKMELOEIQLKEAKHIAEEA DRKYEEVARKLVIIEGDLERTEERAELA ESRCREMDEQIRLMDQNLKCLSAAEK YSQKEDKYEKEIKILTNKLEAETRAEF AERSVAKLEKTIDDLEDKCLKCTKEEHL TQRM LDQTL DLNEM
4886	12937	A	5759	1	239	QCCSGGTHGNPAIGDRMQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLTS SRMWISKQEYDESGPSIVHRKCF
4887	12938	A	576	22	413	
4888	12939	A	5760	3	1458	ADPPPVHTRQLTMDDDIAALVVDNGS GMCKAGFAGDDAPRAVFP SIVGRPRHQ GVMVGMGQKDSYVGDEA QSKRGILT LK YPIEHGIVTNWDDMEKIWHHTFYNELRV APEEHPVLLTEAPLNPKANREKMTQIMF ETFNTPAMYVAIQAVLSLYASGRITGIV MDSGDGVTHTVPIYEGYALPHAILRLDL AGRDLTDYLMKILTERGYSFTTTAEREIV RDIK/EEAVLRRPGLRARDGHG\ASSSSLE KSYELPDGQVITIGNERFRCPEALFQPSFL G\MESCGIHETTFNSIMKCDVDIRKDLA NTVLSGGTHQFPLPCRPGC*KKITALEP\ ATMKIRIIAPPEAQSTPLWNRGAPILAS LVHLP AKMWDQKSREYDESGPLPFVHR K\CF
4889	12940	A	5761	171	324	
4890	12941	A	5762	3	383	
4891	12942	A	5763	2	314	FFFFISALKALFAFLQILLFQVNVLRITAH IVISFINLLSVTPSKAFLLAFIFCREDYSF TAYATISYLKIGPKANLLNN EAYVITMQ VTKSTQNSFRVNGY
4892	12943	A	5764	1	176	MRTFALLTAMLLVA/HAQAEPLQARAD EAAAEQPGADDQEMAHAFTHWESAA LPLSA

4893	12944	A	5765	1	2674	GKHKLLSTGPTPEWSIREKLCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAGHMDSRLDELNDIA KKKLEEEAEVKRKATDAAYQARQAVK TPPRRLPTVMVRSPIDSASPGGDYPLGDL TPTTMEEATSGVTPGTLPTSTPVSFPGIPD TLPPGSAPLEAPMTPVTDDSPQKKMLGQ KATPPPSPLLSELLKKGSLLPTSPRLVNES EMAVASGHLNSTGVLLLEVGGVLPMIHG GEIQQTPTNTVAASPAASESVSQATIVMM PALPAPSSAPAVSTTESVAPVSQPDNCVP MEAVGDPHTVTVSMDSSEISMIINSIKEE CFRSGVAEAPVGSKAPSIDGKEELDIAE KMDIAVSYTGEELDFETVGDIIAIEDKV DDHPEVLDVAAVEAALSFCENDDPQSL PGPWEHPIQERDKPVPLPAPEMTVKQE RLDFEETENKGIHELVDIREPSAEIKVEPA EPEPVISGAIVAGVVPATSMPEPELRSQ DLDEELGSTAAGEILEADV AIGKGDETPL TNVKTASPESMLSPSHGSNPIDPLEAE TQHKFEMSDSLKEESGTIFGSQIKDAPGE DEEEDGVSEAASLEEPKEEDQGEGYLSE MDNEPPVSEDDGFSIHNLTLQSHTLAD SIPSSPASSQFSVCSEDQEAQAKIWKK AIMLVWRAAANHRYANVFLQPVTDIA PGYHSIVQRPMDLSTIKKNIENGLIRSTA EFQORDIMLFQNAV MYNSSDHDVYHM AVEMQRDVLQIQFLATQLIMQTSSEGI SAKSLRGRDSTRKQDASEKDGGRTRRR CAIEADMKMKK
4894	12945	A	5766	1	419	YANVFLQPVQDDIAPGSPSIGQRVMDL ST/IKKNI*NG*SEAPADFQR*HMLMFQN LLMYHSSDHYFYHIAIEMQ\RDVLEIQ QFLATQLIMQTSSEGS\SAK\SLRGRDSTR QDASEMDGGTRGR\CAIEADMKMK K
4895	12946	A	5767	2	111	ISAKSA\GRDSTRKQDASEKDSVPMGSP AFLLSLF
4896	12947	A	5768	3	2884	GKHKLLSTGPTPEWSIREKLCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAGHMDSRLDELNDIA TKKLEEEAEVKRKATDAAYQARQAV KTPPRRLPTVMVRSPIDSASPGGDYPLGD LTPTTMEEATSGVTPGTLPTSTPVSFPGIP DTLPPGSAPLEAPMTPVTDDSPQKKMLG
4897	12948	A	5769	3	627	PRGENRFKAQPEWRKTPCQMMLSQSTF RKT VYIGKIFTTILALPYVGAKELNMIIML PDETTDLSTV\EKDSTHAKFVEWTS LDM MAEEEVKLSIPRFKLEESYDMESVLRNL GMTDAFEAGARANFSGMS\QTDLSLVQR SCTKSICGRSNEGRPREAASPPKVANMM MRCA\RFCPPPPADHPFLFIQHRKTN GUILFCGRFSSP
4898	12949	A	577	1	2148	
4899	12950	A	5770	3	626	YNLVTFR/LAVLSFEKDDDHNGHIDFITA ASNLRAKMYSIEPADRFKTKRIAVKIILV KPTTTGTVSGLVCFE\MIKVTGGYPFAAY KNCFLNLSHS/IFVVFTETTEVRKTKIRNG ISFTIWDRTVHGKEDFTLLDFINAVKE KYGIEPTMVVQGVKMLYVPVMPGHAK RLKLTMHKLVKPTTEKKYVDLTVSFAPD IDGDEDLPGTSK
4900	12951	A	5771	92	265	SFELFADKVPKTA/WLDGKHVVFVGKVK GMNIVEAMERFGSRNGKTSKKITIADCG QLE

4901	12952	A	5772	1	1310	GNSPPSELKWKAKSEDLRHRGLKAQAEI KGSTQQIGFTTDPMARSSPYPTDVARV VNAPIFHVNSDDPEAVMYVCKVAAEWR STFHKDVVVDLVCYRRNGHNEMDEPMF TQPLMYKQIRKQKPVQLKYAELLVSQG VVNQPEYECVSMHGVNRNKPSTKSS MDGLILHPATGLVFLSKQCEEIHQPVV WTCEQREAEENATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVGRAAACGNGA QKVGRGRENFPCL*ATGEK\GFWL*GVP CFHRLFPRLVCVQGGELQQRH*WPLVG KPHSMGKKI*KIEELPSLKHTGSPGILSP WQNAGPQTNGFSPSICTA\KTEWLEW PSHVVFVHK*KEGMNIVEAHWSRFGS R\NGKTQRRSPFADCGQLLISLTCVFILT TKIISFCRLRRAPLOPHLLAVS
4902	12953	B	5773	47	204	XQHTFCKRCGVQSFYTPRSNPGGFIAP HCLDEGTVRSMVTEEFNGSDWEKA*
4903	12954	A	5774	2	402	CGDRGALRPPSCAGRSGPGPPRPPRPP LPWHPAPPAHGAPLARPGARARRSEKPP SEKPRLLRRSSPRAQEEGPGEPPPELALLP PPPPPPPTPA\PRRPRR\PGPGRAAGALG DVPEAAEAYLERVPPSSC
4904	12955	A	5775	2	241	FSCLSLKSWDYRALPPSPANLFLVETG FHHVQGASLKLTSGDPPASASQTVGIT GMSHHA WPVSSFYIWSHWAPRNS
4905	12956	A	5776	22	643	VVEFPVLTMAATSGILSALGNFLAQMIE KKRKKENSRLDVGGLRYAVYGFFTG PLSHFFYFFMEHWIPPEVPLAR\VRRLLL DRL\FFAPAFMLMFLIMNFLEGKDAST FAAKMRGGFWPAAEDETCTRVWTP\QF IN\NYVPFESSGCGFGQPGQLLFWAYL ALLGEVTTTRWENIRCTCGRSGGGLHPPK REQKPIQSGCH
4906	12957	A	5777	23	448	ELESRSVTQAGVQWCDLGS\LOPPPL/SF KQFSFLSLLSSWDYRHVPPCANVCILVE MGLVGQAGLELLISSDTPISVSQSAGHSV SHGTQPHIGNFLEQLKVQLCYTSFLCFT KSSTVKHIQLIHKITLRNTKNKARI
4907	12958	A	5778	25	396	ISGRSTFSLFSRQGLSALSPRLE\CSVAISA HCNLRPLGSSN\GTTGA*HHTRLILYF/LA EMGFHHVQAGFEVLTSSNPPASASTSA RITGMSNRT\GHLFNHP*MCYKYRCGS LAGRGGRW
4908	12959	A	5779	80	460	YISLNVTHLIFFFFLRQGL\CSVTQAGV \QWCNLGSLQPLPPRFK\NWDYRCVTPH LANFVFLVEMGF/LPASASQSAGITGVSH CTQLGVFICICYGSSHGVRQSWHQFCSS KLLVKSGRVGVLLG
4909	12960	A	578	222	666	SLCFCLEVSLPACQETYGKSPFWILSIPF EDIARNLMKRTVCAKS\IFELWGHGQSPE ELYSSLKNYPVEKMVPFLHSDSTYKIKIH TFNKTLTQEEKIKRIDALEFLPFEGKYNL KKPQHVFVLEDYGLDPNCIPENPHNIYF GRW
4910	12961	A	579	1664	1844	WQKLLFLFGTESCSVARVGVQWRHLSS PKPPPP\GSSNS/PASASRVATGAHLHAR LIFVFL
4911	12962	A	5792	16	301	IFASTAPKRSWARLGPPQILVSVATKASF GAPTIPSR\PGPQSVFANSDFPAPPQIPSR PVRIPPGIPPGVPRRPPAAPSRRTHIRPAEP SLLD
4912	12963	C	5793	78	209	MSVFXXXXXXXXXXXXXXXXXXXNEET NHPLGVVYRLSDSTQYI*
4913	12964	A	5794	119	231	

4914	12965	A	5795	69	909	EWCLLSPPEGHTFHLIWGITELKTKRRGR KPSRPPMCYGKCARCIGHSVLVGLAILCI AANILLVYFPKGETKNAS\ENHLSRFVWF FSGIVGRL/VLLMLPAQHFLHWGLEQD DC\CG\CCGHEN\CGKRCAMLSSVIGWLS IG\AGSGLLWSIV/VQPLGLARKDPLCLD S/LSGQWKLQPLPSTEGPVTFWITSTWSVE CTEPKH\VKWNVSLFSILLA\GGPELILC LIQVINGS/VLGGICGFCCSHQQQYGLAK RTNPGTEPQSFLYFHCNLSYLHLYSIC
4915	12966	A	5796	1	200	RGPVLLDTS/TWARCNEPKPI/VEWNDTL FSN/LLASGGIEFILCLIQVINGVLGGICGF CCSHQQQYDC
4916	12967	A	5797	2	424	RLSLTLVAQAQVWHNLGSLQPPPPGFK RFSCSLPSSQDHRHTPPCPA/NSFVFLVE TRLHHAGQAGLKLPTSG/DTPSSASQSAR ITGVSHRARCWDSNSTIFLGLANSNWR NVFLIVGGERIKGKHTHFNTISMSEFEE
4917	12968	A	5798	46	626	
4918	12969	A	5799	1	1004	MWLILAGLAWAGLWVSDGLKDVLMVA KGKSRRGKSAPKHIMSLGPLLMFAFICH FASVMGFHYLEVNLRLQQCFKYQLIETA FAVLVQSVLRIYSSRIWDKTSLECLKVLT GHTGSLVCLQYDERVIVTGSSDSTVRVW DVNTGEVLNTLIHHNEAVLHLRFSNGLM VTCCKDRSIAVWDMASATDITLRRVLVG HRAAVNVVDFDDKYIVSASGDRTIKNR DKAEVAYTNLVWSTSTCEFVRTLNHGHK RGIACLQYRDRLVVSGSSDNTIRLWDIEC GACLRVLEGHEELVRCIRFDNKRIVSGA Y/DMGFSSLELLATWLPNA*GSSFTAEL
4919	12970	A	58	1107	1365	HSGSAGMHWNLFLVHCMQAH*LFDRIL LHMM*CNGRGP*FALCTRCSQ*DSGAN\ WDK*KNILPLRNFGWLGFNRDLGSRGW VPEV
4920	12971	A	580	3	439	
4921	12972	A	5800	1	3084	
4922	12973	A	5801	3	265	
4923	12974	A	5802	242	401	DLYAATYSHSHT/ILVWSTSTCEFVRTLN GHKRGIAQLQYRDRLVVSIGSSDNTI
4924	12975	A	5803	2	385	FVFAAARGERGGFAGAVMEPDSVIEDKT IELMLPKCMFGILLKKAGYSKRKESWK MLDCLFSD*SERENPHSFWIGGSEVQNI FQNTSVMEDQNEDESPKKNILWQISNGT SSVIVSRKRPSEGNH
4925	12976	A	5804	1	1248	
4926	12977	A	5805	2	1653	RGGAAGAAMEPDSVIEDKTIELMCSVPR SLWLGCANLVESMCALSCLQSMPSVRC LQISNGTSSVIVSRKRPSEGNYQKEKDL IKYFDQWSESDQVEFVEHLISRMCHYQH GHINSYLPMLQORDFITALPEQGLDHIAE NILSYLDARSLCAAELVCKEWQRVISEG MLWKKLIERMVVRTDPLWKGLSERRGW DQYLFKNRPTDGPPNSFYRSLYPKIJDIE TIESNWRGRHNLQRIQCRSENSKGVYC LQYDDEKHSGLRDNSIKIWDKTSLECLK VLTGHTGSLVCLQYDERVIVTGSSDSTV RVWDVNTGEVLNTLIHHNEAVLHLRFS NGLMVTCKDRSIAVWDMASATDITLR RVLVGHRAAVNVVDFDDKYIVSASGDR TIKVWSTSTCEFVRTLNHGHKRGIAQLQY RDRLVVSIGSSDNTIRLWDIECGACLRVL EGHEELVRCIRFDNKRIVSGAYDGKIKV WDLQAALDPRAPASTLCLRTLVEHS\GR VFRLQFDEFQIISSSHDDTILIWDFLNVPP SAQNETHSPSGITYTYISR

4927	12978	A	5806	1	180	NFKRFHKTIATETASYWPK/DRHINQRN/ RESPVINPTTYGQLIVDKGAKNTQWGKD NYFN
4928	12979	A	5807	1	355	
4929	12980	A	5808	81	474	LGERRRASLSLSLTPGRRRGFKVATQER NPQRAQMRLARRQKKGVVPFWGDFLTE LQ/MGLDSAIPGRPWMATPNKRSKEVRV LQEMQLLQVAAMNYRLRPLEKFVITYFT RMEQLSDKESYKLSQCLEPENQ
4930	12981	A	5809	3	383	
4931	12982	A	581	1	691	MDQDSASTKTCPGTHRKS GPRSREQHG ALGAANAHD TVRDGERYDRWSGPRRRE QHGAALGAANAPD TVRDGERSLRRDWR DCAEATADVSGVRSLSRLLSARRLALAL AKAWPTVLQTGTRGVHFTVDGNKRASA KVSDSISAQYPVVDHEFDVAVVGAGGA GLRAAFGLSEAEFDTACVTKLFPTRSHT VAAQLENYGMPFSRTEDGKIYQRAFGG QSLKFGKGRQA
4932	12983	A	5810	1	148	
4933	12984	A	5811	3	1219	PGAMATLSFVLLLGAVSWPPASASGQE FWPGQSAADILSGAASRRRYLLYDVNPP EGFNLRRDVYIRIASLLKTLLKTEEWVLV LPPWGRLYHWQSPDIHQVRIPWSEFFDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYRGRWFWGYEETRGLNVSCLS VQGSASIVAPLLRNTSARSVM LDRAEN LLHDHYGGKEYWDTRRSMVFARHLREV GDEFRRHLNSTDDADRIPFQEDWMKM KVKLGSALGGPYLGVHLRRKDFIWGHR QDVPSLEGAVRKIRSLMKTHRLDKVFVA TDAVRKEYEELKKLLPEMVRFEPTWEEL ELYKDGGAIDQWICAHASS*SAAGEPE TSCAGAGGTGRPLT
4934	12985	A	5812	75	130	IHRE*VPAAQGELRGAAE
4935	12986	A	5813	1	1940	MATLSFVLLLGAVSWPPASASGQEFWP GQSAADILSGAASRRRYLLYDVNPPEGF NLRRDVYIRIASLLKTLLKTEEWVLVLP WGRLYHWQSPDIHQVRIPWSEFFDLPSL NKNIPVIEYEQFIAGAQLSHAAVSFPKC FSEMDLKWMSFVPPQLEPPLHPKKAATP GCYSDRTRLPVKAVLRSGRRACGVCF VVSQCSARDKELHLRDAPSRFVPAPEFH LRGAPSRFVPAPELHLRGAPSRFPAAFE QILIADLLGVTVPWSWCGSGQSGGPFIDQ VYVLQSYAEGWKEGTWEEKVDERPCID QLLYSQDKHEYRCLLRLLPLPQGWRSC QSQVSIKGSDDTRPPVEKLSVNSLHVS SARAAGSKAWQGSASIVAPLLRNTSAR FERWDYSLQRVFSVGVD FRIDGVTFHSH PWFCDRPADVFTRAAACKAGTCLQETQ SLLTWDFVQTRRSMVFARHLREVGDEF RSRHLNSTDDADRIPFQEDWMKMVKVL GSALGGPYLGVHLRRKDFIWGHRQDVP SLEGAVRKIRSLMKTHRLDKVFVATDA VRKEYEELKKLLPEMVRFEPTWEELELY KDGGAIDQWICAHARFFIGTSVSTFSF SDS*GKEKFLGLDPKTDVQQVLRREG V

4936	12987	A	5814	3	1286	PGAMATLSFVFLLLGAVSWPPASASGQE FWPGQSAADILSGAASRRRYLLYDVNPP EGFNLRDQVYIRIASLLKTLKTEEWVVLV LPPWGRLYHWQSPDIHQVRIPWSEFFDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYRQWFWGYEETRGLNVSCLS VQGSASIVAPLLRNTSARSVMDRAEN LLHDHYGGKEYWDTRSMVFARHLREV GDEFRRHLNSTDDADRIFFQEDWMKM KVKLGSAALGGPYLGVHLRRKDFIWGHR QDVPSLEGAVRKIRSLMKTHRLDKVFVA TDAVRKEYEELKKLLPEMVRFEPTWEEL ELYKGGVAIIDQWICAHARCLPTLSAE SGSGGFQRFPCPKYSVSEQMVACVHSGH FHTVCLLV
4937	12988	C	5815	164	391	
4938	12989	C	5816	321	341	MAALAS*
4939	12990	A	5817	128	526	FFFFIKTASHSVVQAGVQWRSLSMQP PPPGLKQFSLSLGWSWIKGHLPHPSNFC IFSRDGVSPCWLGWSQTPGLRPQSPKC LGLTGCEATSPWPASLKLKNCVPHLPG YVYLLHVLGPRSCYKQKW
4940	12991	A	5818	3	273	RRPRQRPTDQTFWFSILPDFSLDLQEGPS VESQTHSDPHIPPVDP'THILTFNHLISVC VSLTSLPHLGPCLWSPALVSQEAASH QDRR
4941	12992	A	5819	1	861	MLDSSLALGGLVLLRDSVEWEGRSLLK ALVKKSALCGEQVHILGCEVSEEFREG FDSINNRLVYHDFRDPLNWSKTEEF PGGPLGALRAMCKRTDPVPVTIALDSLS WLLRLPCTTLCQVLHAVSHQDSCPGDS SSVGKVSVLGLLHEELHGPVPGALSSL AQTEVTLGGTMGQASAHILCRRPRQRP NYQTQWFSNLPDFQPGSPRGALCRVPA LIPIHIPPKEREARDSLILPFQFSSEKQQA LLRPRPGQATSHIFYEPDAYDDLDQEDP DDLDI
4942	12993	A	582	306	458	IYIFLLNCIFLIHIIYFETESCSVAQAGWV QWHDLGSLQALPPGFTPF
4943	12994	A	5820	2	494	LGLLHEELHGPVPGALISLAQTEVTLG GTMGQASAHILCRRPRQRPTDQTRVSI LPDFSLDLQEGPSVESQPYSDPHIPPVSK NAKARTKCSLVSGHGRENKSCRGWG WGQGF*GWGRVAASFVP'QVDP'THILTF NLHLSSKKEREARDSLILPFQFSSEK
4944	12995	A	5821	1	498	VRKVSVLGLLHEELHGPVPGALSSLAQ TEATLGGYH/VGQASAHMLCRRPRQRP TDQTFWFSILPDFSLDLKEGPSVESQPY DPHIPRVDP'THILTFNLHLSSKKEREARD SLILPFQFSSEKQQA\LLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNLPQI
4945	12996	A	5822	3	322	HERQMALLKANKDLIPDGMTLTPLLQP LGFEDPVVCEQDVVTAGQDWVYYDR DYGQQVTGEPQERDKALQELRQELNTL ANPFLAKYRDFLKS'HELPSHPPSS
4946	12997	A	5823	3	276	
4947	12998	A	5824	151	204	SGEPFISGRFWWLQDG/DLMTLPRLVS NSWLKQSSHLGLLKHWDMSEAPHLAK NFLKAYEVVSLSFHVEGSGGCRMA
4948	12999	A	5825	175	456	IHFVLISAHAVGCEGILWGGWSLRGVGV PHSSAKRS*VGIRPGKGRPGAQLPAGR ARASTEVPSGAPCPLLGAKNDRGLHAP KRTGTGPSNH

4949	13000	A	5826	188	269	IHFVLISAHAVGCEGISPIEEMGVSAISIQ EACSPGLQWATSFLASAWVSAPLLQMA HICPILLGSLKGARATNRFQSLFVQGV SFPARFPHLDLLQ*P*KNDWTDVSHLE QRGTNPG*RQE*SGPLQPWRAGFLDGQC
4950	13001	A	5827	1	542	
4951	13002	A	5828	2	889	RGLRIPTWALQELAGRVTRRGPETGEGR REPGGSASPMRAAFPAGGAGGSVEPPSA RPAPQPAGTAARSEEAPARAQAAGMAG PGWGPPRLDGFILTERLGSCTYATVYKA YAKKDTREVVAIKCVAKKSLNKASVEN LLTEIEILKGIRHPHIVQLKDFQWSDNIY LIMEFCAGGDLRSFIHTRRILPEKVARVF MQQLASALQFLHERNISHLDLKPQNILL SSLEKPHLKLADFGFAQHMSPWD/EKH VLRG\SPLYMAPEMVCQRQ\YDARVDL WSMGVILYGETSFPCFSP
4952	13003	A	5829	297	331	
4953	13004	A	583	47	358	SLLTPLVSPVPACPCPSKSEVSVPEHPLP CRPLFRVWRNRQSRGCPQGEHYGAGA WGLLPVWKSCPPAKTCCKWGLP/CPPC GRSCLHSG\GAALCLLCGSA
4954	13005	A	5830	3	405	
4955	13006	A	5831	3	408	
4956	13007	A	5832	1	530	
4957	13008	A	5833	198	1175	RANPFRMGNHAGKRELNAEKASTNSET NRGESEKKRNLGELSRTTSEDNEVFGEA DANQNGTSSQDTAVTDSKRTADPKNA WQDAHPADPGSRPHLIRLFSRDAPGRED NTFKDRPSESEDELQTIQEDSAATSESLDV MASQKRPSQRHGSKYLATASTMDHARH GFLPRHRDTGILDSIGRFFGGDRGAPKRG SGKVPWLKPGRSPLSHARSQPGLCNMY KDSHHPARTAHYGSLPQKSHGRTQDEN PVVHFFKNIVTPRTPPPSQGKGAEGQRPG FGYGGRASDYKSAHKGFGVDAAQTLS KIFKLGGDRSRSRSGSPMARR
4958	13009	A	5834	1	651	MGNHAGKRELNAEKASTNSETNRGESE KKRNLGELSRTTSEDNEVFGEADANQN NGTSSQDTAVTDSKRTADPKNAWQDAH PADPGSRPHLIRLFSRDAPGREDNTFKDR PSESEDELQTIQEDSAATSESLDVMAQKR PSQRHGSKYLATASTMDHARHGFLPRH RDTGILDSIGRFFGGDRGAPKRGSGKRLT PPGKNCSLRVPAPEVTRPDPR
4959	13010	A	5835	3	208	
4960	13011	A	5836	71	394	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTSVELEDKKELSESEDEEL QLEEFPMKTLDPKDWKNQDHYAVLGL GHVRYKATQRQIKAARKYLVILK

4961	13012	A	5837	146	1910	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTSASTLCQVEPVGRWFEA FVKRRNRNASASFQLEDKKELSEESQD EELQLEEFAMLKTLDPDWKNQDHYAV LGLGHVRYKATQRQIKA AHKAMVLKH HPDKRKAAGEPIKEGDNDYFTCITKAYE MLSDPVKRRAFNSVDPTFDNSVPSKSEA KDNFFEVFTPVFERNRSWSNKNVPKLG DMNSSFEDVDIFYSFWYNFDSWREFSYL DEEEKAEACRDERRWIEKQNGATRAQ RKKEEMNRIRTLVDNAYS CDPRIKKFKE EEKAKKEAEKKAKAEAKRKEQEAKEKQ RQAELEAARLAKEKEEEEVRQQA LAK KEKDIQKKA IKKERQKL RNSCKIEEINEQ IRKEKEEA EARMRQASKNTEKSTGGGG NGSKN WSEDDLQLLIKAVNLFPARTNSR WEVIANYMNIHSSSGVKRTAKDVIGKAK SLQKLDPHQKDDINKKAFDKFKKEHGV VPQADNATPSEFEGPYTDFTPWTTEEQ KLLEQALKTYPVNTPERWEKIAEAVPGR TKKDCMKRYKELVEMVKAKKAAQEQV LNASRAKK
4962	13013	A	5838	1	1909	DVSRCAHRARPGAIMLLPSAADGRGTA ITHALTSASTLCQVEPVGRWFEAFVKRR NRNASASFQLEDKKELSESEDEELQLE EFPMLKTLDPKDWNQDHYAVLGLGH VRYKATQRQIKA AHKAMVLKHHPDKR KAAAGEPIKEGDNDYFTCITKAYEMLSDP VKRRAFNSVDPTFDNSVPSKSEAKDNFF EVFTPVFERNRSWSNKNVPKLGDMNS SFEDVDIFYSFWYNFDSWREFSYLDEEE KEKAEACRDERRWIEKQNRATRAQRKKE EMNRIRTLVDNAYS CDPRIKKFKEEKA KKEAEKKAKAEAKRKEQEAKEKQRQAE LEAARLAKEKEEEEVRQQA LAKKEKDI QKKA IKKERQKL RNSCKTWNHFSDNA ERVKMMEVEKLCDRLELASLQCLNET LTSC TKEVGKAALEKQIEEINEQIRKEKE EAEARMRQASKNTEKSTGGGGNGSKN WSEDDLQLLIKAVNLFPAGTNSRWEVIA NYMNIHSSSGVKRTAKDVIGKAKSLQKL DPHQKDDINKKAFDKFKKEHGVVPQAD NATPSEFEGPYTDFTPWTTEEQLLEQ ALKTYPVNTPERWEKIAEAVPGRTKKDC MKRYKELVEMVKAKKAAQEQVLNASR AKK
4963	13014	A	584	1248	1667	TNTGGWGP RH HAFVQHTLELLSLLCLNC GFLVYPFFLSWTVMYGSVNLNLLKYG FQGI VVFY YCVIKLKKIWLCLPRPRVP WLPTSDPSLRSPSSMVLNQICRVYSATK RGSVTGSWAYPCVLSRGMMSSELCKSRA
4964	13015	A	5840	3	231	SFFETESCSVAHPGAQWCDISSLP PPPG\ SSDCPASASRVAGITGTHHHAWPIFVFV VETGFHCLPQPPIVLGLQA
4965	13016	A	5841	2	300	RRRLALSPAGVHWHGLGSLQPPPPWFER FSCGLLSGWDCRRAPPRPASFFVFLVET GFRHV GKDGLDFLT/S/GDPPALASQGA WIAGVSHRTRPQIHFF
4966	13017	A	5842	227	290	
4967	13018	A	5843	1	225	HCNFPLPVQAILGSSNSRASASRVAGTTG ALQHMQ LIFCILVETGFHRVAQAGLDLL S\LTIHPPRPPKVLGLQA
4968	13019	A	5844	3	147	LEIFFFFSFTFF/CRWGLTMFIRLVLFNW PQMILLPLPLPPKVLGLQA
4969	13020	B	5845	47	241	GKDFNMPLTISRITPGSKAAQSLSQSG DLVV AIDGVNTDTMTHLEAQNKIKSASY NLSLT LQK*

4970	13021	A	5846	3	408	CGGIPSQATIFTLSTLISSVTSLNSTSFSTK VHTLSQNLVVFREPLKLTFLTL*ASAAF IALSN*SRT*RASWGVIC*DCMSSSRPPE DCFPK*YFCITDMPWLRKRNFFSTFQSK CRF*GTPICQKDKTSKK
4971	13022	A	5847	1	2209	AAADSTMSYSVTLTGPGPWGFRLOGG KDFNMPLTISRITPGSKAAQSQLSQGDLV VAIDGVNTDTMTHLEAQNKIKSASYNLS LTLOKSKRPIPISTTAPPVQTPLPVIPHQK DPALDTNGSLVAPSPSPEARASPGTPGTP ELRPTFSPAFSRPSAFSSLAESDPGPPRA SLRAKTSPEGARDLLGPKALPGSSQPRQ YNNPIGLYSAETLREMAQMYQMSLRGK ASGVGLPGGSLPIKDLAVDSASPVYQAV IKSQNKPEDEADEWARRSSNLQSRFRIL AQMTGTEFMQDPDEEALRRSSTPIEHAP VCTSQATTPLLPASAQPPAAASPSAASPP LATAAAHTAIAASASTTAPASSPADSPRPQ ASSYSPA VAASSAPATHTSYSEGAAPAP KPRVVTASIRPSVYQPVASTYSPSPGA NYSPTPYTPSPAPAYTPSPAPAYTPSPVPT YTPSPAPAYTPSPAPNYNPAPSVAYSGGP AEPASRPWVTDDSFQKFAPGKSTTSIS KQTLPRGGPAYTPAGPQVPPLARGTVQR AERFPASSRTPLCGHCNNVIRGPFLVAM GRSWHPPEFTCAYCKTSLADVCFVEEQN NVYCERCYEQFFAPLCAKCNKIMGEV MHALRQTWHITTCFVCAACKKPFNGSLF HMEDGEPYCEKDYINLFSTKCHCCHFP VEAGDKVIEALGHTWHDTCFCAVCHV NLVEGQPFYSKKDRPLCKKHAHTNL
4972	13023	A	5848	1	537	RTRGGDVKTDLNNIEEFLEETLTPEKYPI LAAKHREYNTEIDIFYKFSAYIKNTKQQ NNAALERGLTKALKKVDDYLNTPLOE RDAYTCGEDKGTRRKFLADGDELATLAD CNLALPKLHVVKIVGKKYRNYHIPADMT GLWRYLKNAYARDEFTNTCAADSEIEL AYADVAKRLSRS
4973	13024	A	5849	1	654	WEGPTCSMCKVIGIHNACEEAPLHVSFH GQKTELNNCISMLVAANDRVHTIITQLE DSRRVTKENS HHVNRKLSQKFDLYAIL DEKKSELLLRISQEKEKLFIEALIQYQ EQLDKSTKL VETAIQSLDEPGGATFLTA KQLIKSIVEASKGCQLGKTEQGFENMDF FTLDLEHIADALRAIDFGTDEEEEFIEEE DQEEEEESTEGKEEGHQ
4974	13025	A	585	334	696	IKPEMEAGISVTLGLDRNTRVQVGCREL RSTKYISGWASCTSIQPSGREL/VCVVGE CLPLPVVPNWIGGGYGTKYWSRRSSQ EWAVCSMDKTRYPEDSQLQCQDGSTR YKITVSSLPAS
4975	13026	A	5850	141	626	LLWILIAAPPPPPVIRNGARGCSPSPPTIP NAWGQEP RP RP RP RP RP RP DAAGATPS FLPPPLRNGHRDSIHHCSGL/CLDDFESK YSFHPVEDFPAPEEYKHFSEDYPSKTNR AARGAPPLPILQVKPGLVPFLIKRMDL LFFSYGPLHSSSELLHDSS
4976	13027	B	5851	23	160	MQHVCAMRQVDIDAYTTCLYASGTTIPV PQLPLLLMALLGLCTLVL*

4977	13028	A	5852	221	1645	APRMRL LAW LIFLANWGGARAEPGKF WHIADLHLDPA DYK VSKDPFQV CQSAGS QPRGPTQAPWGDYLCDSPIWALANSSIY AMKEIEPEPDFILWTGDDTPHVPDEKLG EAAVLEIVERLTKLIREVFPDTKVYAALG NHD FHPKNQFPAGSNNIYNQIAELWKP WLSNESIALFKKGAFYCEKLPGPSGAGRI VVLNTNLYYTSNALTADMADPGQQFQ WLEDVLT DASKAGDMVYIVGHVPPGFF EKTQNKAWFREGFNEKYLKVVRKHHRV IAGQFFGHHHTDSFRMLYDYAGVSISA MFITPGVTPWRTTLPGVVNGANNPAIRV FEYDRATLSLKDMVTYFMNLSQANAQG TPR\WELEYQLTEAHGVPHATAHSMHT VLGRIVGDKSTLQRYVYVNS\VSYSAG VCDEAC\SMQHVCAMRQVDIDATTCL YASGTTAVPQLPLLMALLGLCTTRAV TCQAHHSW
4978	13029	A	5853	3	126	AYGDSMCAKCVSDRIKHAFIIEQKIIV KVLKAQAGSQKAK
4979	13030	C	5854	306	386	MLFLKAIWGGSDSWSREAACPLNCNL*
4980	13031	A	5855	709	1199	AGVGVRGTTGRLVVRKFLTIFGNPLFL VAPPKPHSEWSQRLTYRRRPSPYNTAL* QK/RRHRSHNQIPPRIVYLLYPRRLGKHP NSACGVCPRQEFEGVRAVRPKVLMRL SKTKKHVSRAVGGSNVCLNVFRDRIKR AFLNEEQKIVVKVLKAQAQSQKAK
4981	13032	A	5856	1	219	HRGYLLFNLFVEVISSEQSVLAPPVRR*T CIVANLRGVGDPDTSRHCAQGLGFKLLT LYSLLVGSESWGGARA
4982	13033	A	5857	112	312	LCTVCLWALKAGVGPEPERLIYSVPVFV */HAVCAGIADGGSFSSKVRCLIEIFFYTG ISIKMFLYIK
4983	13034	C	5858	133	237	MFMDXXXXXXGGRFKGSLGGPKFTRAC KVKFFSL*
4984	13035	C	5859	61	177	MRIHKRLIDLHSPSEIVKQITSISIEPGVEV EVTIADA*
4985	13036	A	586	258	382	
4986	13037	C	5860	100	153	MSPPKSKGPFPRFPGRF*
4987	13038	C	5861	142	195	MSPPQSKGPFPPKFPGRF*
4988	13039	A	5862	11	90	
4989	13040	A	5863	3	759	TVPLEVVLLRKVGAAGGARGVIRLLDW FERPDGFLVLERPEPAQDLDFITFERGA LDEPLARRFFAQVLA AVRCHSCHSGVVH RDIKDENLLAVLRSGELKLIDFGSGALL MDTVYTDGTRVYSPPEWIRYHRYHG RSDTVWSLGVLLYDMVCGDIPFEQDEEI LRGRLLFRER\VSPECQQLRWCLSLRPSE RPSLDQIAAHPWMLGADGGAPEQ/DCDL RLCTLDPDDVASTTSSETLLRSLHLTGS
4990	13041	A	5864	1	422	
4991	13042	A	5865	2	435	ILAEFGSLHLEFLHLTELSGNQVFAEKVR NIRKVLRKIEKPFGLYPNFLSPVSGNWV QHHVSVGGLGDSFYEYLIKSWLMSGKT DMEAKNMYEAELET/HKLGPEAFWFNS GREAVATQLSESYILRPEVVESYMYLW RQTHNTK
4992	13043	A	5866	1	837	
4993	13044	A	5867	1	415	TKLGPEAFWFNSGREAVATQLSESYIIL RPEVVESYMYLWRQTHNPIYR EWGWE VVLAEKYCRTEAGFSGIQDVYSSTPNH DNKQQSFFLAETLKYLYLLFSEDDLLSL EDWVFNTEAHPLPVNHSDSSGRAGGRH

4994	13045	A	5868	1	1187	ESFHLNVSGEASLFEVNIRYIGGLLSAFY LTGEEVFRIKAIKRLGKLLPAFNTPGIPK GVVSFKSGNWGWATAGSSSILAEFGSLH LAEFLHLTELSGNQVFAEKVRNIRKVPQV SFEKPFGLYPNFLSPVSGNWVQHVSFG GLGDSFYEYLIKSWLMSAKTDLEAKNM YYG/APLEAIEYLLNVSPGGLTYIAEWR GGILDHKMGHLACFSGGMIALGAEDAK EEKRAHYRELAVQITKTCYESYARSDTK LGPEAFWFNSGREAVATQLSEE/ITYILR PEVVESYMYLWRQTHNP/SYREWGWE VVLALKEYCRTEAGFSGDSKTCYSRHPQ PRTTSRQSFFLAETLNRCLVSACNGPDTG LEARDTAESETVISPAVKGSRGKAMVR ETD
4995	13046	A	5869	1	1561	MIFVVILMVVLSPEGGSGLDSSPFLSEA NAERIVQTLCTVRGAALKPYPTGPNFR YSHGVPPHLFAYFPPGSTVSQDNFSISPQ LQHIFERVQSADFMPRWQMLRVLEEEL GRDWQAKVASLEVPFAAASIGQVHQG LLRDGTEVAVKIQYPGIAQSIQSDVQNLL AVLKMSAALPAGLFAEQSLQALQQELA WECDYRREAACAQNFROLLANDPFRV PAVVKELCTTRVLGMELAGGVPLDQCQ GLSQDLRNQICFQLLTCLRELFEFRFMQ TDPNWANFLYDASSHQVTLDFGASREF GTEFTDHYIEVVKAAADGDRDCVLQKS RDLKFLTGFETKAFSDAHVEAVMILGEP FATQGPYDFGSGETARRIQDLIPVLLRH RLVSPPEGDLWPWHRKLAAGAFACAH LRDHIACRDHKPGHLPPLLGQSPARRSH CRQPPHQRGTPGWIPHDSLHGGFSPQSR PYPVAVVPLIPSPSALGQRSPLGLPSLAWL SSLAPKTQESLGLGNSP
4996	13047	A	587	1637	1832	VFSTRCGTHPPVCLAEFVKRLRYC/EYLG KYFCDCCHSYAESCIPARILMMWDFKK YYVSNFSKTA
4997	13048	A	5870	1	1532	MPQALERADGSWAWVLLATMVTQGL TLGFPTCIGIFFTELQWEFQASNSSETSWFP SILTAVLHMAGPLCSILVGRFGCRVTVM LGGVLASLGMVASSFSHNLSQLYFTAGF ITGLGMCFSFQSSITVLGFYFVRRRVLAN ALASMGVSLGITLWPLLSRYLLENLGWR GTFLVFGGIFLHCCICGAIIRPVATSVAPE TKECPPPPPETPALGCLAACGRTIQRHLA FDILRHNTGYCVYILGVMWSVLGFPLPQ VFLVPYAMWHSVDEQQAALLISIGFSNI FLRPLAGLMAGRPAFASHRKYLFSLALL LNGLTNLVCAASGDFWVLVGYCLAYSV MSGIGALIFQVLMDIVPMDQFPRALGLF TVLDGLAFLISPPLAGLLLDATNNF*DVF QQCPSFFP*SKAPLLKGGSFPPPPQKKEQ GKQAVAADA\LERDLFLE\AKDGPQKQR SP\EIMCQS\SRQPRP\AGV\NHLWGCPAS SRTSHEWLFWPKAVLQAKQTALGWNSP T
4998	13049	A	5871	946	1279	QTELGVRFPTLPFLLSARGCSGRFVLF VDFRVQPGFRKENLIQGDLFMNRQSS RQPRP\AGV\NHLWGMSCP\ASRDPAMK WLLWPKAVLQAK\QTALGWNSPYLECP V
4999	13050	A	5872	3	297	ESCSVTQAGVHW/CNLGSLQSPAPDSSD SPSSVSRVAGITGMCHHAQLIFVFFVETG FHHGEAGLCRLPKCWDYRCEPPRLHL GLQLNFTYKDRCLA

5000	13051	A	5873	276	880	KADSEQHGEAKRRYSSSLAKKEVSKAPE DKKKRLEDDKRKKEDKERKKKDEEKVK AEEESKKKEEEKKKHQEEERKKQEEQA KRQQEKVEAAAHMKEKEESIQLHQEAWE RHHLKKELCSKNQNPAGSRPKENFFSRL DSSLKKNTAFVKKLKTPEQQRDSLSD FNGLNLSKYIAEAVASIVEAKLKISDVNC AVHLCS
5001	13052	A	5874	2	619	LDLDFNAILIVTSLAPFFQDCMSENALH ELNIELLRNKLYKSYLEAFYKFCCKNHGD VTAEVMCPILEFEADRRAFIITLNSFGTEL QOE'DRETLYPNLGQLLSEGFALLAQAE DFDQMKNVADHYGVYKPLFEAVGGIGG KTLEDVVFYEREVQMNVLAFNRQFHYGV FYAYVKLKEQEIRNIVWIAECISQRHRTK INSYIPIL
5002	13053	A	5875	1842	2306	GPRRLAFLTSAGDGVYTRPVVFDHCTC ATFHREDAYRLPFIPTNHHTASPE*VPP HPhLGALQLPGDPSHDIHSIGTPNSNADA PKAGGCKWTQTRSVVPNSALGRKGSTH LPRIYTFTLALPETKLSNCPKAPPIGLEH TSLAWALGTAD
5003	13054	A	5876	301	471	
5004	13055	A	5877	269	394	
5005	13056	A	5878	524	604	
5006	13057	A	5879	187	401	VSCPGSNSPLGSSSASGASSLNFLPSVPV R*SVSGLNLRVPAMARAVTISGDVTKA WVSGFASLRPVKFL
5007	13058	A	588	1	856	MKRSMTLTIFHSEIRILNRQPPPKESWE DIEDFGETHLDLFLKQYGFENGIPVHDTI ARVVSCISPAKFHECFINWMRDCHSSND KDVIADGKTLRHSYDKSRRRGAIHVISA FSTMHSLVIGQIKTDKKSNEITAIPELLN MLDIKGIITTDAMVNCIVKVTGVFAING DQRVAEPDSGALCQVRYPGNHRNDQRY LFRHSDSELLHWMVALDAAVKRVKCL WMSLHKVYSCIPELPPQESAGVHSGSQ YA*CNRTPHGQKPGTSAPGSSGVWRIT SV
5008	13059	A	5880	667	888	AHTVHIRRSASRLPAGPASRLVDLSH*DL GHVP/AGFFLIMNVQQEGLADLSTSAHL LGAPLVKGSRP HAWADAW
5009	13060	A	5881	1	163	GLVDESFDVTSPTGPSSADATTSVRAAK KRAPYTLVGSISEPGLGLISWWTN
5010	13061	A	5882	183	426	
5011	13062	A	5883	1	1152	MHNSDGIEVMRQKAEIGRVGGLEGIQ GVTEVIVNGARMLESYNCKAELGATGL VNYQISVKCSNQFKLEVYLLNAENKV DNQAGTQQLKVLGTNLWWPYLMHEH PAYLYSWEGRPDGAQAVGALTPGTLAV EVWLTAQKSLGP/SDFYTLVPGLRTVAV TESQFLISGKPFYFHGVNKHEDADIQK GFNWPLLKDFNLLCWL GANTFCTSHY PYTEEMLCICYRYGIVVIDECPAPSGHT GPSVPSLLARWQLFNNVSMHHHMWV EEPVLDRKNHPAMVMWSLAKEPASFLE SAGYSFKSLTMEQTARVLDLDTGEAVLQ YRSLPRGAHKTLGKKRKISSYNVDLTSC QLAKEKCLKGPSSFLQSRQERMNSELRD N
5012	13063	A	5884	401	882	CTNTPPTWTRGRMVIAHTKALDPSQPV FVTNVTYAADKGALYVDVTPLNYSYSG YRNYGHL/ELIQLQLAAQFENWCKTSQ SHYSERVWSGNAL*GFHQDPPLMFQ*RG PGKVLLEQYHLGLDQKRRKYVVGELIW NFADFMNTQCVSFLVGNENSANL

5013	13064	A	5885	197	1184	ETSHQVMDRNPVKPALDYFLNRLVNY QISVKCSNQFKLEVCLLNAENKVVDNQ GTQGQLKVLGANLWWPYLMHEHPASL YSWEGRPDGAQAVGALTPGALAVEVR LTAQKSLGP/SDFYTLVPGLRTVPVTE WALYVDVIRVNSYYSWYRNYGHLELIQ LQLPAQFENWCKTSQSHYSERVWSGNA YRVSPGGGNLPHALPCCSQNLALPTFSP GTVVISLALSLIGLWAQETGVLFIVVSQD PPLMFSEYQKSLLEQYHLGLDQKRRKY VVGELIWNFADFMTNQCKWQFSAWDN VPVLIFSGCLAHSCHFCKNIGNKGCKL V
5014	13065	A	5886	1	657	
5015	13066	A	5887	76	614	VCQYCTARMADFGISAGQFVAVVWDKS SPVEALKGLVDKLQALTGNEGRVSVENI KQLLQCLVPGSTTLHSAEILAEIARILR PGG\CLFLKEPVETAVDNNSKVKTASKL\ CSALTLS\GLVEVKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPNFEVGSS MQLKLSITKKS
5016	13067	A	5888	102	1292	ACQYCTARIVDFEISAGQFVA*VWDKSS PVEALKGLVDKLQAF/TPGNEGRVSV\EN IK\QLLQ\SAHKESSFDIIL\SGLVPGKAPL WHS*DFWAGNPPGFLRPGWMFFFLKE PVETAVR*Q*AKWKTASKLCSALTLSGL V/EKLELQREPLTPEEVQSVREHLGHES DNLLFVQITGKKPNFEVGSSRQLKLSITK KSSPSVKPAVDPA*AAKL\WTL\ANDMED DSMCIFCGCSLTHRWPLEHVVRNMMI NQKEDRVD\TFFTLDSKFPLEACSHFSFSL AETTTVSLIALNTLQDLIDSDELLDPEDL KKPDPASLRAASCGEGKKRKACKNCTC GLAELEKEKSREQMSSQPKSACGNCYL GDAFRASCAPYLGPAPFKPG\EKVLLSD SNLHDA
5017	13068	A	5889	1	747	MGRYVAQAGLELLSSDPSIPSSKTLQEQ NDQSYSTLPVFPEVALHTLLWGEDANN SKVKELQREPLTPEEQSVREHLGHESDN LLFVQITGKKPNFEVGSSRQLKLSITKKS SPSVKPAVDPA*AAKLWTL\ANDMEDDS MDLIDSDELLDPEDLKKPDPASLRA\AS CGEGKKRKACKNCTCGLAEELAEKEKSR EQMSSQPKSAICGNCYRGAMPSCASCAP YLGMPAFKPG\EKVLLSDSNLHDA
5018	13069	A	589	148	333	
5019	13070	A	5890	2	152	YRHMAPHTNFKK/FFCRDGGVLMLPR LVFNSWPQGILLQPPKVLGLQV
5020	13071	A	5891	1	581	EKQCKSCGETFNSITKRRHHCKLCGAVI CGKCSEFKAENSRQSRVCRDCLTQVPA PESTEKTPTADPQPSLLCGPLRLSKSGET WSEVWAAIPMSYPQVLHLQGGSDGRL PRTIPLPSCKLSVPDPEERLDSGHVWKLQ WAKQSWYLSASSAELQQWLETSTAA HG\DTAQ\DSPGALQLQVPMGAAAP
5021	13072	A	5894	1	303	PCGARQCGGPPRL/CSSRRTSQELLSK PVPPAPGGPASRVGRGSVSGALSPAWN GERQHHRGVVLTHPQSPNHQAGSPNPN TRQALATLSVPNKPFI
5022	13073	A	5895	1	284	ATESCSVAQVGWQCDLSSLQAPPPGFT PFSSLSLQGSWDYRSPPPHPANFFVVLVE /MASASQSAGITGVSHRTRPRIAIFNLTEN TNGSVDED
5023	13074	A	5896	3	338	GIHGSYGGYLSLMLMQRSDIFRVAIA GAPVTLWIFYDTGYTERYMGHPDQNEQ GYLGSVAMQAEKFP/EIYPQERHSIRV PESGEHYELHLLHYLQENLGSRIAALKVI
5024	13075	A	5897	1	1200	

5025	13076	A	5898	2	594	NRGSCHRGLKFEGAFKYKMGQIEIDDQV EG\QYLASRYDFIDLDRVGIHGWSYGG YLSLMALMQRSDIFRVAIAGAPVTLWIF YDTGYTERYMGHDPDQNEQGYLGSVA MQAEKFPSEPNRLLLHGFLDENVHFAH TSILLSFLVRAGKQYDLQIYPQERHSIRV PESGAEHYELHLLHYLQENLGSRIAALKV I
5026	13077	A	5899	74	248	KTLWMVNRTVLAGICSQQLSAGTAT/DV SKHRLQGFI PCRIPS/ASPQTQRKFSLQFH RNC
5027	13078	A	59	582	1303	GACSRAGLWLLGQGLGPRIYQLSEDCV SWSC\HQPLSPQSLIWARTESSPDTQS GEDRKTSFVGHPQTALGGLGQSIESLMS SEAETEERRCTWMQLSETNRTLFLFGVT KYTAGPYECEIWNSSGSASRSDPVTLNLL HGLDALTISSSYTYHTGEVPKLSCLIDT HPLAEHSWLIGGKFQSSAQVFFIPQITKT YRGVYVCFIHNSATGGTNLIHKRIIPDHS LRSALSLEVTGS
5028	13079	A	590	311	576	
5029	13080	A	5900	258	552	CMVFHD/VSGACCCNGETTGKISGGGNQ LGSSPIGGPNPS/SGSSQTSISGDVVEACC SVLSMVCADPVYKVYVAALLERELPG VFSGKIFNLLSDCLLW
5030	13081	A	5901	1	1660	
5031	13082	A	5902	1	1947	MALRRLSHDVS GALLANGESTGNSGG SSGSSPSGGATSGSSQTSISGDVVEACCS VLSMVCADPVYKVYVAAL\QCMLLVTL EDPSSH\TRMRRRLM\AYADEVEIAEAIQ LGVEDTLGQQDSF\CRHLFP\TTIWKPQR TVP\LECTIHLEKTGKGLCATKLSASSEDI SERLASISVGPSSSTTTTTEQPKPMVQ TKGRPHSQCLNSSPLSHHSQLMFPALSTP SSSTPSVPAGTATDVSKHRLQGFI PCRIPS ASPQTQRKFSLQFHRNCPENKDSDKLSP VFTQSRPLPSSNIHRPKSRPTPGNTSKQ GDPSKNSMTLDLNSSSKCDDSGCCSNS S\NCCYT\SDETVFTPVEEKCRLDVNTL NSSIEDLLEASMPSSDTTVTFKSEVAVLS PEKAENDDTYKDDVNHNQCKEKEKMEA EEEEALAIAMAMSASQDALPIVPQLQVE NGEDIIIIQQDMTFFRHHPIQWIYKKESA NLLIDSTGQRLRIADFGAAARLASKGTG AGEFQGQLLGTIAFMAPEVLRGQQYGRS CDVWSVGCAIEMACAKPPWNAEKHSN HLALIFKKLLDFANTACDGDKESEVEDV ETDSGNSPEDLRKEIMIGLQYQAEIPPYL GEYDGNEKDSQPCKMTGVQNAKEVLS T
5032	13083	A	5903	1	4491	PSPEAGGGGGALKASSARAAAAGLIRE AGSGGRERADWRRRQLRKVRSVELDQL PEQPLFLAASPASSTSPSEPADAAAGSG TGFQPVAVPPPHGAASRRGAHLTESVAA PD SGASSPAAAEPEKRAPAAEPSAAA PAGREMENKETLGLHKMDDRPEERMI REKLKATCMPAWKHEWLERNRRGPV VVKPIPVKGDGSEMNLAAESPEVQAS AASPASKGRRSPSPGNSPSGRTVKSESPG VRRKRV
5033	13084	A	5904	1940	2062	
5034	13085	A	5905	785	892	
5035	13086	A	5906	1	2745	
5036	13087	A	5907	1	3297	
5037	13088	A	5908	1	2202	
5038	13089	A	5909	1	2868	

5039	13090	A	591	279	602	FFLSEILSVSLTFFIISNYYSQVINS LAVY RHRETDFGVGVDRDHPGQ/PWQNPISHEK LDNLIHIIIGFLRRYTFNILFCTSCLCVSILT FCRGILVITNKNKLYKTK
5040	13091	A	5910	1	3237	
5041	13092	A	5911	1	2001	
5042	13093	A	5912	1	2982	
5043	13094	A	5913	1169	3269	VHCRFWILALCQMSRLQKSPLLFNIVLE VLAKAIKQEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLSNFSKVSG YKINVQKSQAFLYTNNRQTESQIMSGLP FTITSKRITYLGIQLTRDVKDLFKENYKP LLKEIKEDTNKWKNIPCSWVGGRINLVK MAILPKVIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRALIAKSSLSQKNKTGGITLP DFKLYYKATVTKTSWYWYQNRDIDQW NRTEPSEIMPHIYNYLIFDKPDKNKQWG KDSL FNKWCWENWLAICRKLKLDPFLT PYTKINSRWIKDLHVRPKTIKTLEENLGN TIQDIGMGKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQPTWEWEKI FATYSSDKGLISRIYNELKQIYKKKTNNPI KKWAKDMNRHFSEEDIYAACKHMKKC SSSLAIREMQIKTTMRYHLTPVRMVIKK SGNNRCWRGCGEIGTLLHCWWDCCLV QPLWKS VWQFLRDLELEIPFDP AIPLLGI YPEDYKPCCYKDTCTRMFIAALFTIAKT WNQPKCPTMIDGIKKMWHIYTMEYYAA IKKDEFMSFAGTWMKLETHLRKLSQGG KTKHRMYSLIGGNLTMRTFGHSAGSHH TPGPIMRCGAGGGIALGEIPNVNDELMG TANQHGT CIPMQQNCTLCCTCLKLV
5044	13095	A	5914	2821	5794	
5045	13096	A	5915	457	651	
5046	13097	A	5916	3	637	KGDHV KHYKIRKLDNGGYIITTRAQFET LQQLVQHYSERAAAGLCCRLVVPCHKGM PRLTDL SVKTKDVWEIPRESLQLIKRLGN GQFGEVWNGTWN\NGNTKVAIKTLKPGT MSPESFLEE AQIMKKLKHDKLVQLYAV VSEIEPIYIVTEYMNKGSLLDFLKDGEGR ALKLPNLVDMAAQAAGMAYIERMNYI HRDLRSANILVGNGLICK

5047	13098	A	5917	1	2523	MHWKRPWQVGGYLTAAATDTVQMLNY MSVRQLSYLNFNPNTWQFLSWSQMP TQQAYPCVTHTHTPVLGQMACCISNQR RTAALIGTGRPERNVHVNLRQGFFVNA HEPWWNEKVARQEPEDAGRGA VNR AWGFS PRLIHWSEGPQAAAALGDRD PRWLPYHH AAAALSGSHAAALSLAP SRSSALAVLIALL PAAQLHHHVPR SKACDIAYVGGHRRQV WYGQEDGQ QILVVPVLLSTTQQKVSAL WADRLE RALLARSLAARLAPPSVHPCW V /VTFPSAVAWINAGSLDLFLKDGE GRA LKLPNLVDMAAQVAAGMAYIER MNYIHRDLRSANILMGNGLICKIAD FGLARLIED NEYTARQDPTSRGHR SSAMNPYGSRA GRGRVESGLTLQMA ATQVTVQWSAHLV SGEAVAWNTFPT ANQDRKELAAALSCSCP STLCFML LGLYPTLDHLQVRQSHCLTVS CA WQGLKPLFLWLAINKAEICLTLLKY WQADCELLASAYQHAWHTCARTQSS NL SIADIESLELVVKTFHQQKIFGL TSYSG MFVGTWNGNTKVAIKTLK PGTMSPEFLEEAEQIMKKLKHDKLV QLYAVVSEPIYI VTEYMNKGGDE GTIREIGQVKAPRRDN IPKPSAAH AAQLVMWHEVRLTRALCPF WGWLD SWHHFCVELHPTHPLITQPKPG KE LTDVVHRSQFSGAQS RVESIWIQR SM TKTPGAKLQKQAYQGVS NPHH HHHTGQ QLKAVPHPLMEAPDAIDG YRKILVNFTKI YSAFAVTNSDYE WQPTLVAIGYRCGDP QGTERRTQ KPPTEVVTTQLQPQWLLRG HVGL VLLDHPHFKEKP
5048	13099	A	5918	74	1002	SNESNAVALSTVERTARRDAPQHGT QPRGLPRSSEPHPAQRTAATGKARQ RRKTTA SAGAREGRRRLAGTTSIP GP/FSAPVHR HRPQEP RQGPRTP RRAEEKRDQMASHV ECRPLGVFE CELCTLAPYSYVGQKPPN TQSMV LLEESYVMKDPFTSDKDRFLVLG SCCSLCSRLVCVGPVGRMEVEQH GFHSV PSVLRVTPESKSLSICHL RTHTKGSCINS QGDEMGGGRSLR SVAWEYLRLEELV VQEKLGKEDCK GNSARLGEKESSIKEDP QPARFSD GPGLECCSDVTERDDLQOG SS
5049	13100	A	5919	3	401	RSRGTRAAMASHVECRPLGVFECEL CTLAPYSYVGQKPPNTQSMVLEES YVMKDPFTSDKDRFLVLGSCCSL CSRLVCVGPVGC SLFYSKRFCLP CVRENINAF PQEIRQ DLEKRKA PSKRTPSQPGSRT
5050	13101	A	592	66	1474	TAPPPSPSPSSLLSPCNGVHHVST QPSCP GRGKMSKLLNPEEMTSRD YYFDSYAHF GIHEEMLKDEVRTL TYRNSMYHNKHVF KDKVVLG/VG SGTGILSMFAAKAGAKK VFGIEC SSISDYSEKIIKANHLDNITIFKG KVEEVELPVEKVDIISEWMGYCL FYES MLNTVIFARDKWLKPGGL MFPDRAALY VVAIEDRQYKDFK IHW WENVYGFDMTC IRDVAMKE PLVDIVDPKQVVTNACLKV WTL IRGGPGCAGSPAVPPWSPGNAGS CT APTWARAKVVRLRYEPEVRLE GHATLV TEGTKKERYQGPWKEP GAWLIGPEKVM EKSVLTPNVILD ASYCWELAYQKIGEGV VWFYITG GPDKTQIAVLVQQEVDIYTV KTE ELSFTSAFCLQIQRNDYVHALV TYF NIEFTKCHKKMGFSTAMEE PCIPFVLSK EKVN NVVVVTAQV ESVLDEGEAG

5051	13102	A	5920	96	615	NIILRNSIITSRKIKYTTLSTTHSIFLFPQISP QMSLIGFFYESEANKGSHFFGYVSCNLN AETT/SLFYICFLKSPDQGGNAQTMAY NITPLRRRA/VECVQDQFGFINYEVGADSK K/LFFHMKFV/SRDGQCSAWNVPSSLR GPKA/VAAPRPDRL/VSRKKNITL/D/DAS DPR
5052	13103	A	5921	1497	2853	EMVLVSSSVWIVMFVCSSTSVKFWMG SSHIADEVEFTVVPDMLSAQRNHAIKIK LPKGTVSFHSHTDHRFLGTVEKEATFSNP KTTSPNKGKEKEAEDGIIAYDDCGVKLTI AFQAKDVEGSTSPQIGDKVEFSISDKQRP GQQVATCVRLGRNSNSKRLLGIVATL KDNFGFIETANHDKEIFFHYSEFSGDVDS LELGDMVEYSLSKGKGNKVSARKVNT HSVNGITEADPTIYSGKVIRPLRSVDPT QTEYQGMIEIVEEGDMKGEVYVPGIVGM ANKGDCLQKGESVKFQLCVLGQNAQTM AYNITPLRRAT/VECVKDQFGFINYEVG DSKKLAFHH/VKKVQDQGIELQA/GDEVEF SVILNPAATGKVQAPC/NVWR/VCEGPP RLLQAP/RPDRVGSIRLKNITLDDASAPR/ LMV/LRQPKGDQITSMGF/GAERKIRQA GVID
5053	13104	A	5922	23	206	
5054	13105	A	5923	1	267	ALFRDKLKHMGKSTRRKLFELARAFSEK TKMRKSKRKHLKHQSRLGAAASTANL LDDVEGHACDE/NFRGQASRRAPQGGG RPCREGQ
5055	13106	A	5924	1	267	FFFFLTDILL/CLFLRWSFTVTQAGVQ WSDLGSLQPPPRKQFSLCLSSWDH KCLAPRANFCSFSKDGVSFCWPGWSQT PHLR
5056	13107	A	5925	1	325	MGTSWGWPRWSVTAMPPTSMRPSRR SSSCWPCIPRLPASTAP*SMRPHSGPRMT TRSC/LKTRSYADGYSPLNVAQRYVVA/ W*GTQEKVMPGRLAIPQRHRAGQQR
5057	13108	A	5926	366	489	QETTWPDLTKWLP*RPWMGMSSGF ARWSVTAMPPTSE
5058	13109	A	5927	228	754	
5059	13110	A	5928	1	2709	
5060	13111	B	5929	76	925	XQCFFLSADSRIAELLTELHQLSKQTQEE RSRSEHNLVNIQKTHERMQNTENKISPY RTKLRLGLYTTAKADAEACNLRLKALD MIAEIKSLLEERRSAAKIAGLYNDSEPPR KTMRRGVLMTLQQSAMTLPLWIGKPG DKPSQPSPLVLAASKALQVLLGFLLYN LPCLSHRHHPQLSRLRLPLYSKDCISQE CLNLVFLADVWFGFLPSIYLVFLIILYEG LLGGAAAYVNTFNIALETSDEHREFAMA ATCISDTLGLSGLLALPLHDFLCQLS*
5061	13112	A	593	379	475	DLQGVNHLRPVGVQDQPGQHGETLSLLK IQNN/LARRGGGRL/QSLLRRLRQDNRL NPGGGGCSEPRSRHCTPAWVTEQDPISK QNKRRQANFLIWEDFPYIPQGTCLIFTAQ KLPRCK
5062	13113	A	5930	3	1066	GSWGYQPTGLYAPTRR/GLNVILDWVQA HFPTDDFALAEFDGTNLYEHSDFREGYH QDWNLTLYNYGRREVSNFLVGNALYWI ERFGIDALRVDAVASMIYRDYSRKEGE WIPNEFGRENLEAIEFLRNTNRILGEQV SGAVTMAEESTDFPGVSRPQDMGGLGF WYKWNLGWMHDTLDYMKLDPVYRQY HHDKLTGILYNYTENFVLPVSHDEVVH GKKSILDRMPGDAWQKFANLRAYYGW MWAFPGKLLFMAAKIAGLYNDSEPPR KTMRRGVLMTLQQSAMTLPLWIGKPG DKPPPLCGAIPASGDYVARPGDRLLARL

						KPLNGERA VDSLPEGGQVTAIATQQGM R
5063	13114	A	5931	53	506	FFVFLVEMGFHHVQGAGLELLNSSDLPS SASQSAGIYRCEPLCPAFFFFSETESRSV AQAVVQWCDLSSLQPPPHFKRFFCLSL LSSWDYRHVPPCLANFCIFVEAGFHHV GQAGHKLLISSDPPASVSQSAGITGMSHC IQPHSPVFS
5064	13115	A	5932	1	346	SANATTKTSETNHTSRPRLKNVDRSTAQ QLAVTVGNVTVIITDFK\EKTRSSSVSSST VTS\SAGS\EQQN\QSSSGVQRAPDKGLPP RSLPTPKGDMS\AVNDEIFPEIATWCEK L
5065	13116	A	5933	1	915	MGKEKTHINIVVNGHIDSGKSTSTGHLY KCGINKRSIKKFEKKAEMGKGSFKSF VCDSSWYIPGHRDFITNIFTGTSQADCAV LVVAAGVGEFEAALLQDVYKIGGIGTV PDGQVETVALKPGVVITFAPVNTTTEVK SVKMHHEALSEAFSGDNVGFHVKNVSV KDIHCSNNAAGCKNDPPMEAAGFTAQVI VLNHPGQ/DCHMAHIAACKFAELKEKIDR SSGKKLEDGPKFLKSGDVAIIDMVPGKP MCVESFSYPLGCFACDMRQTV ALG VIKAADKKAAGAGKVTKYPQKAQKAK
5066	13117	A	5934	1	759	
5067	13118	A	5935	30	706	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAVIFKNGQTR EHALLAYTLGGKQLIVGVNKM DSTEPY SOKKYEEIVNEVSTYIKKIGYNPDTRAFV PISGLNGDHMLEPRANMPWFKGWKSHP
5068	13119	A	5936	1	706	QSEQPCALPSRESTKLGGIGTVSSAPMET VGFSPGMVVTFAPSPR*QRKV\SAKMH HEALSEALSCEQLGASNVKNVFCQGM FRPWQTVAG*PAKNDPTQWEASWLSLL QVILANHPRPK*GAGPMPLYLDCHTAHI ACKFAELKEKIDRR\SGKKLEDGPKFLK SGDAAIVDMVPGKPMCVESFSYPLG RFAVRDMRQTVAVGVIAVDKKAAGA GKVTKSAQKAQKAK
5069	13120	A	5937	364	458	VIEHLVSQDGLDFL/NLVICPPRPVKVLGL QA
5070	13121	A	5938	1	266	EMESRSIA\RMECSGSISAHCKLRLPGSH HSPASVSRVAGTTGTCHHARLIFYF/LL ETGFHCVSHDGLHLL/NLVICPPRPVKVL GLQA
5071	13122	A	5939	1	201	PPTGP/PKLPDPVHLPFGPPPSAWALPG MSPPSPDPDRNKLRIIRILKNASLSYLQVE VFPYKMP
5072	13123	A	594	2	307	QAGV**WDLGSLQPLPRLKQFS/CILNP GNLSKEF*STKETKQNFVGHISQSTSKF AISLIQIHPINMRSGTKTFMMV*GNKQRS KFPWIWTFKIFDMLPS
5073	13124	A	5940	2	142	ESIQDYKHLCDLSFCQLPPDPPPLTVPQ THNARDQWLQDAFHISL

5074	13125	A	5941	1	432	IHDELSRAARA\PDGPRHAAGAANAGPA AGPRRPVNLDSDALAALRKEMLSA\VGLR QLDMSLLCQLWGLYESIQDYKHLCDL SFCQDLSSSLHSDSSYPDAGLSDDEEPP DASLPPDPPLTPVQTHNARDQWLQDAF HISL
5075	13126	A	5942	3	696	VSMGALGLEGRGRLQGRGSLLAVAG ATSLVTLLAVPITVLAVLALVPDQGG/ LGFQKLPEEEPETDLSPGLPAHLIGAPL KGQGLGWETTKEQAFLTSQTQFSDAEG ALPQDGLYYLYCLVGYRGRAPPGGGDP QGRSVTLRSSLYRAGGAYGPGTPELLE GAETVTPVLDPARRQGYGPLWYTSVGF GGLVQLRRGERVYVNISHPDMVDFARG KTFFGAVMVG
5076	13127	A	5943	1	743	MGALGLEGRGRLQGRGSLLAVAGAT \SLVTLLAVPITVLAVLALVPDQGGGLV TETADPGAQAQQLGFQKLPEEEPETDLI PGLPTAHLIGAPLKGHGL\GWETTKEQA FLTSQTQVSDAEGALPQDGLYYLYCLV GITGRAPPGGGDPQGRSVTLRSSLYRAG GAYGPGTPELLEGAETATPVLDPARR QGFWPLWYTSVGFGLVQLRRGERVYV \NISHPDMVDFARGKTFFGAVMVG
5077	13128	A	5944	1	588	MGFLHVGQAGLKLLTSGHYQKRMFSE NEENVKRMKTSEQINENICVSLERQTAFL EQVPESFEHLPLPEPPAPLPELVDKTRD TLPPQKPELKVKRVFRPNGIALTNITKI NPKCAPEEK\YPLFLCHENSNNKLIWKKI GEIKALPLPMAC\TSLQFLASNRYFTVQ SKDIFGRYGPFCDIKSIPGFSENLT
5078	13129	A	5945	3	495	EDTGTFRIYESAGAVKKARGFLEFVEDF IQVSKNLIGKVGKNGKVIQEI\VDKSDMV PVRIEGDSENKLPREDKDDRDSRHQRDS RRCPPGRCRSVSGRRGRGGPRGGKSSIS SVPKDPDSNPYSVLDN\TESDQTADTDAS KSHHSTNRHTRSRRRRRTDEDAVL
5079	13130	A	5946	1	2065	MAELTVEVRGSGAFYKGF\KDVEDSL TVVFENNWQPERQVPFNEVRLPPPPDIK KEISEGDEVEVYSRANDQEPGWWLAK VRMMKGEFYVIEYAACDATYNEIVTFER LRPVNQNKTVKKN\TFKCTVDVPEDLRE ACANENAHKDFK\KAVGACRIFYHPETT QLMILSASEATVKRVN\ILSDMHLRSIRTK LMLMSRNEEATKHLECTKQLAAAFHEE FVVREDLMGLAIGTHGSNIQ\QARKVPGV TAIELDEDTGTFRIYGESADAVKKARGFL EFVEDFIQVPRNLVGKVGKNGKVIQEI DKSGVVRVRIEGDNENKLPREDGMVVF VFVGTKE\IGNVQVLL\EYHIA\YLKEVEQ LRMERLQIDEQLRQIGMGFRPSSTRGPEK EKG\YATDESTVSSVQGSRSYSGRGRGR GPNYTSGYGTNSELNPNSETESERKDELS DWSLAGEDDRDSRHQRDSRRRPGGGRGR SVSGGRGRGGPR\GGKSSISSVQYRSNIH NCSTLKRIFLASDMNIVLKDPDSNPYSLL DN\TESDQTADTDASESHHSTNRRRRSR RRTDEDAVLMDGMTESDTASVNENGLD DSEKKPQRRNR\RRRRFRGQAE\DRQPAI DFIYKEVEKV\SLWQAKDVIEEHGPSEK AINGPTSASGDDISKLQRTPGEEKINTLK EENTQEA\AVLNGVS

5080	13131	A	5947	1	1876	MADVTVVEVRGSNGAFYKGFIKDVHEDS LTVVFENNWQPERQVPFNEVRLPPPPDI KKEISEGDEVEVYSRANDQEPGWWLA KVRMMKGEFYVIEYAACDATYNEIVTTE RLRPVNQNKTVKKNTEFFKCTVDVPEDL REACANENAHKDFKKAVGACRIFYHPE TTQLMILSASEATVKRVNLSMDHLRSIR TKLMLMSRNEEATKHLECTQLAAAFH EEFVVREDLMGLAIGTHGSNIQQARKVP GVTAIELDEDTGTFRTJGESADAVKKAR GFLEFVEDFIQVPRNLVGKVGKNGKVIQ EIVDKSGVVRVRIEGDNENKLPREDGMV PFVFGTKESIGNVQVLLLEYHIAYLKEVE QLRMERLQIDEQLRQIGSRYSRGRGRGR RGPNTSGYGTNSELSNPSETESERKDEL SDWSLAGEDDRDSRHQRDSRRRPGGRG RSVSGGRGRGGPRAGGKSSISSVLKDPDS NPYSLDNTESDQTADTDAISESHHSTN RRRR/SIRRRRTDAEDAVLMDGMTSDT ASVNENGLVTVA\DYISRAESQSIQRNLP RETLAKNKKEMAKDVIEEHGPSEKAING P\TSASGVDDISKAT/RVLRGEEKINPLKEE NTQEA AVLNGVS
5081	13132	A	5948	1	392	TESERKDELSWWSLAGEDDRDSRHQRDS WRRPGGRGRSVSGGRGRGGPRGKSSIS SVLKDQPSNP\YSLDNTESDQTADTDA SESHHSTNRRRRSRRRTDEDAVLMDG MTESDTASVNENGLGKRC
5082	13133	A	5949	269	973	PAACPSANNICFYGECSYYCSTEHALC GKPDQIEGSLGAFLPDLSLAKRKTWRN PWRRSYHKRKAWEVDPDYCEEVKQT PPYDSSHRILDVMDMTIFDFLMGNMDR HHYETFEKFGNETFIHLDNNGRGFGKYSH DELSILVPLQCCRIKSTYLRLQLLAKE EYKLSLLMAESLRGDQEAPVLYQPHLEA LDRRLRVVLKAVWDCVERNGLHSVVD DDLDEHRAASAR
5083	13134	A	595	374	665	GAQGLSLSPRLECNAILAHCNLCPLGSS NSPGSAS*VAGTIGMHHRARLMFVFLVE SGFHVVGQAGLELLTSSDPPASASQSAGI RGISRRAGLDF
5084	13135	A	5950	1	106	
5085	13136	C	5951	146	280	MVFKDQKMRFCFCNQXXXXLMNLXXX XXXVLRKKGGSPPFVFL*
5086	13137	A	5952	2	1929	MAAAAVDSAMEVVPALAEAAPEVAGL SCLVNLPGEVLEYILCCGSLTAADIGRVS STCRRLRELCSGKVVWKEQFRVRWPSL MKHYSPTDYVNWLEEKVVRQKAGLEA RKIVASFSKRFFSEHVPCNGFSDIENLEGP EIFFEDELVCILNMEGRKALTWKYYAKK ILYYLRQQKILNNLKAFLQPPDDYESYL EGAVYIDQYCNPLSDISLKDIAQIDSIVE LVCKTLRGINRRHPSLTFIAGESSMIMEIE LQSQVLDAMNYVLYDQLKFKGNRMDY YNALNLYMHQVLIRRTGIPISMSLLYLT ARQLGVPLEPVNFPSHFLRWQGAEGA TLADIFDYTYIDAFGKGKQLTGKECEYLIG VQHVTAALYG\VVNVKKVLQRMVGNLL SLGKREGIDQSYQLLRDSL\LYLAMYP DQVQLLLLQARVYFHLG\TWPEKSFCLV LKVLDILQHIQTLDPGQHGA\VGYLAVQ H\TLEHIL\ERKKEEVGVEVKLARSDEK\HR DVCYS\GLHYGRHKRYGL\N*LC*FYGW GPHLAWMGHELD\SRNMNV\HSLPHGHH QPFYNVLVEDGSCRYA\AQENLEYNAEP VQESH\PDVGRVYSQRFT\RTHYIP\NAEL EIRYPEDLEFV\YETVQ\NIYKCKRKENIE

5087	13138	A	5953	3	364	FFSPETESHCIAQAGVQWQMLGSLQSP PFSCSLSPSSYDYRHAPLHRANFLFLR DGVSAWCPATAPGLLLIFFGRAPWLMV IPAPREAEAGGSLEARSSRPASLFQVSFFS PFFHMF
5088	13139	A	5954	2	114	FFFFGRDK/SLTMLPRLVSNCAQGLPS WPPEVLRLQA
5089	13140	A	5955	3	139	FFFFETETHTVARAGVQWCHLASLQPL PAG\SSHSP\AAASHVAS
5090	13141	A	5956	274	363	
5091	13142	A	5957	7	1047	
5092	13143	A	5958	7	960	
5093	13144	A	5959	2973	3400	GIIFMCPDMYT\SKTFLKACLFALFFFIYP IYFELVGIMEEYIKMCNIPQVGIFSKYLP *SLSV*FFFETESCFVTQAGVLWCYLSSL QPPPGFKRFSCSLSSSWDYRHLPPCPA NFC/IFSRDGVSPCWPG*SQTPDLR
5094	13145	A	596	1	685	EIKYHSLRPLECRGEISAH*NLCLPGSSDS PATAS*VAGITGMRHYAQLIFLFLVET*F HHVGQGSRTPDSDNDPPASASQGAGDY RRD
5095	13146	A	5960	6459	7074	LEARAGSYRPDLPGSHYLLAFFFFFRRS LTLF\SQAGVKWCDLGSSQPPSPGFKQF SCLSLSSWDYRHAPPYRG*FFFFFFFVF LVETGVSPCWARL\VLNARPQVIHPPRAS QSA\GTTAVSHHAQPLCLFIYLFYFY/CIF LRLSFALGPQARVQWHNLSSLQPPPGF KQFSCSLSPSSWDYRWPPHPANFVLL RYLR
5096	13147	A	5961	1	361	VCYPDRDCGESLVAASYRQVPVHCQGW FHPLKPA/SHPDTECVFRKTPKIPQKHS GSPR\PPSPSYRGRFLFRFHPPQHGAGQP SPPLGRKHRPSHTGSAALRACPPPGAA GLHSWGQL
5097	13148	B	5962	27	288	MRKVHVSTVTPNYAGGEPKRFRTAYTR QQVLELEKEFHYNRYLTRRRRVEIAHAL CLSERQIKIWFQNRMRKWKDHLKLPNT KIRSGX*
5098	13149	A	5963	1	825	MSSFLINSNYVDPKFPPEEYSQSDYLP DHSPGYAGGQRRESSFQPEAGFRRRAA CTVQRYAACRDPGPPPPPPPPPPPPGL SPRAPAPPAGALLPEPGQRCEAVSSSP PPCAQNPLHPSHSAKCEPVVYPWMR KVHVSTGRYSLSEVGSGWGGVEEVEEEK EEESNPNYAGGEPKRSRTAYTRQQVLEL EKEFHYNRYLTRRRRVEIAHALCLSERQI KIWFQNRMRKWKDHLKLPNTKIHS AAGSAGGPPGRPNNGGPRAL
5099	13150	A	5964	656	1164	
5100	13151	A	5965	1	4033	MWRRKHPRTSGGTRGVLSGNRGVEYGS GRGHLGTFEGRWRKLPKMPEAVGTDPS TSRKMAELEEVTLDGKPLQALRVTDLK AALEORGLAKSGQKSALVKRLKALML ENLQKHSTPHAAFQPN SQIGEEMSQNSFI KQYLEKQQLLRQLEREAREAAELEEA SAESEDEMIHPEGVASLLPPDFQSSLERP ELELSRHSRPSKSSSISEEKGDSDEKPRK GERRSSVRQARAALKEGSGQPAEEEEED QETP
5101	13152	A	5966	3	5979	KSSSISEEKGDSDEKPRKGERRSSVRQ ARAALKEGSGQPAEEEEEDQETPSRNLV RADRNLTKEEEEEEEEEEDDEEEEGD DEGQKSREAPILKEFKEEGEEIPRVKPEE MMDERPKTRSQEQEVLERGGFRTRSQEE ARKSHLARQQEKEMKTTSPLEEEEREI KSSQGLKEKSKSPSPRLTEDRKKASLV ALPEQTASEEETPPPLTKEASSPPHPQL HSEEEIEPMEGPAPAVLIQLSPNTDA

5102	13153	A	5967	16	208	LLPYSTNPPASASRLAVIAGVHHHTQLMF FLVETGSHCVTQSGKLKPASSNPPTGLT MLGLQV
5103	13154	A	5968	1	932	MKFLLDILLPLLVCSLESFVKLFIPKR RKSVTGEIVLITGAGHGIGRLTAYEFAKL KSKLVLDINKHGLEETAACKKGLGAK VHTFVVDCSNREDIYSSAKVKAEIGDV SILVNNAGVVYTSDFATQDPQIEKTFE VNVLAHFWTTKAFLPAMTKNNHGHIVT VASAAGHVSVPFLLAYCSSKFAAVGFHK TLTDELAALQITGVISLCLCPNFVNTGFI KNPSTSLGPTSSCSRVGPKLVPEEVVNRL MHGILTEQKMIFIPSSIAFLTTLERILPERF LAVLKRKISVKFEAVIGYKMKPH
5104	13155	A	5969	1	1202	IHTGENPYECHECGKAFSRKYQLISHQRT HAGEKPYECTDCGKAFLKSQLIHHQRT HTGEKPFECSECQKAFNTKSNLIVHQRT HTGEKPYSCNECGKAFTFSQLIVHKG HTGVKPYGCSQCAKTFSLKSQLIVHQRS HTGVKPYGCSECGKAFRSKSYLIHMRT HTGEKPHCECGKSFNSQLIVHQRIH TGENPYECSECGKAFNRKQDLISHQRT AGEKPYGCSECGKAFSSKSYLIHMRT GEKPYECNECGKAFIWKSLIVHERTHA GVNPYKCSQCEKSFSGEITPSLLHQRMH TEKPYECSECGKAFIRNSQLIVHQRT GEKPYGCNECGKTFSQKSILSAHQRT GEKPKCTECGKAFCWKSQIMHQRT VDDKH
5105	13156	A	597	3	198	GIPGSSFCGLCGDVPKGKV* VAPRLLRPRGFRGRCGPVLD AESGCRG
5106	13157	A	5970	153	571	LLVLYLPTPSLKGGLRQLDMSLLCQLYS LYESIQEYKGACQAASSPNWYALENG FDEEEYFPEQNSLHRRDRGPPRDL VAPPSPAATGFWSPSRGSWEGCDWEAL PTGHAIVICCFCKKAPPLWTVLGH RG
5107	13158	B	5971	223	347	XNYIRVFGGGTKLTVLGQPKAAPSVTLF PPSSEELQANKATL*
5108	13159	A	5972	2	283	LHSRLDGAAILCPGHCHGSRVEVTYETH QCGLVGLKLLRGGREQSDRGGSGLT* D GQLGPPAEQRTTQAVIPCCAVIMSLILRL EPTDGQGG
5109	13160	A	5973	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAAILCPGHCHGSRVEVTYETHQCGL VGLKLLRGGREQSDRGGSGLT
5110	13161	A	5974	2	385	APFMRDPAAVASVGF/PLLGRQAQVAAG RILVVALFGGFGGLHSHLDGAAILCPGH CHGSRVEVTYETHQCGLVGLKLLRGGW EQSDRGGSGLTEDGQVGASSEDSSIISWP KHAVIVSLILRLEPGDE
5111	13162	A	5975	3	539	RRQAQITAGRVLVVALFGGCGGLHSRL DGAAILCPGHCHGSRVEVTYETHQCGLV GLKLLRGGREQSDRGGSGLT* D GQLG SAEHLITTTIPHLTVIVGLIPGLDPGDGQ GGRVPRAGAENRSGIPAGRSAS**MTNT GARPGFCWYHCTLLSPIFSPQVILAVFP GATDTEGG
5112	13163	A	5976	1	351	RGGWEQSDRGGSGLTEDGQLGASSEH RTMQAVIPCCTVIISLILRLESTDGQGG* G ARLGARESVD* GLIITIDEFGGPPSWD LLVPVYNINSDVGVASRTRDGDPLPGGP RR
5113	13164	B	5977	78	448	XQRTVTSCTGSSSTIGAGYDVHWYQQLP GTAPKLLIYGNSNRPSGVDRFSGSKSGT SASLAITGLQAEDEADYYCQSYDSSLSG YWVFGGGTKLTVLGQPKAAPSVTLFPPS SEELQANKATL*

5114	13165	A	5978	1	393	RVLVVALFGGCGGLHSRLDGAAILCPGH CHGSRVEVTYETHQCGLVGLKLLRGG EQNDRGGSLGLT*DGQLGPSAEHPSGTT TSSI*TAIHSLGLSLEPINCQGGRGGTLGSI EIYNKPLRADYRPHKS
5115	13166	A	5979	3	389	LPGGPGTMVAFGGGLPTVQGRVQALAP VLVGACLEGCGGLHSRLDGAAILCPGHC HGSRVEVTYETHQCGLVGLKLLRGGRE QSDRGGSGLGLDLGRSAWSLRRIPHDKDH WCLLIDSNSQPRLLPGRH
5116	13167	B	598	188	246	MAWLPGSCARVAFPAGAAAR*
5117	13168	A	5980	1	908	AGHRGRRAFRGKGQGGQGRSRLGAGFSG WDKRWWVKGVSRAEIEGVTGVPARD NSIQAGGREVGYYALRRRGRNERAEGL VFSDQTSPIRASFTRRHPGRLCASPSGPLS HWVPGFPHTLRTQGRPPIMCEIRKEERE QDFSLTMRIEKGWMTWDGGRDPSPG NLQLQAPVGGVVRVGGKAFCRGHCLLH GAPFMRDPAAVASVGLPLLGRQAQVAA GRILVVALFGGFGGLQSHLDRAAILCPSH CTGPRVKIHFKKNHVGLVGLKLLRGGW EQSDRGGSGLGLTEDGQLGASSEHSTQ
5118	13169	C	5981	60	392	
5119	13170	C	5982	176	385	
5120	13171	A	5983	1876	2540	FLQLGSWLGRGSCQVSRGPGQPRSDNLL VEPKDLKGNLTHFTTLGGFHLLYMMIWI HPPINLCSGSNFFFLFFFFSFSRLGLALL PQAGVEWRDLGLLQPLPRLQSCAPSS GSSWDRRFMPWPANFCM/FL*RWGLT VLPRLVSNSWAQ/CDPPVSASQSAGITIV SHHVQLEGSTSFIFCKHICIFPPFPFSFLF ISHFYIDLLFYNKTLPLPKKKKK
5121	13172	A	5984	1	393	
5122	13173	A	5985	1	1427	MRERFRNLDEEVEKYRAVYNKLYEHT FLKSEFEHQKEEYARILDEGKIKYESEA RLEEDKEELRNQVLNVDLTkdSKRVEQL AREKVYLCQKLKGLEAEVAELKAEN SEAQVENAQRIQVRQLAEMQATVRSLE AEKQSANLRAERLEK/DSLQSSSEQNTFL INKLHKAEREINTLSSKVKEKHSNKLEI TDIKLETARAKSELDRENRKIHSELDVYL HLDNEILKAAVEHHKVLLVKKDRELIRK VQAAKEEGYQKLVLVQDEKLELENRLA DLEKMKVEHDVWRQSEKDQYEEKLRAS QMAEEITRKELQSVRLKLQQQIVTIENAE KEKNNSDLKQQISSLQIQVTSLAQSEND LLNSNQMLKEMVERLKQECRNFRSQAE KAQLEAEKTLKQIQWLEEKHKLHERI TDREEKYNQAKEKLQRAAIAQKKRKS HENKLRLEKVEVLEAKKEELETENQ VLK

5123	13174	A	5986	2	1831	NYKTLIIICALFTLVTVLLWNKCSSDKAI QFPRRSSSGFRVDGFEEKRAAASESNMY NHVAKQQSEEAFFQEQKAPPVVGGFN SNVGSKVLGLKYEIDCLINDEHTIKGRR EGNEVFLPFTWVEKYFDVYGKVVQYDG YDRFEFSHSYSKVYAQRAPYHPDGVFM SFEGYNVEVRDRVKCISGVEGVPLSTQW GPQGYFYPIQIAQYGLSHYSKNLTEKPPH IEVYETAEDRDKNKPNWDWVTPKGCMA NVADKSRFTNVKQFIAPETSEGVSLQLG NTKDFIISFDLKFLTNGSVSVVLETTEKN QLFTIHYVSNAQLIAFKERDIYYGIGPRTS WSTVTRDLVTDLRKGVGLSNTKAVKPT KIMPKKVVRLLIAKGKGLDNITISTAHM AAFFAASDWLVNRNQDEKGGWPMVTRK LGEGFKSLEPGWYSAMAQQAISTLVR AYLLTKDHIFLNSALRATAPYKFLSEQH GVKAVFMNKHWDWYEEYPTPSSFVLNG FMYSLIGLYDLKETAGEKLGKEARSLYE RGMESLKAMLAPLYDTGSRTIYDLRHFH LGIAPNLARWDYHTTHINQLQLLSTIDES PIFKEFVKRWKSYLKGSRAKH
5124	13175	A	5987	34	332	LLRQGLALLPRLECSGTISAYCNLCLPGS NHPPVSVSQVAGTTGVHHHAQLIFVFW VETGFCHVAQYGLEFLGSSNPALTSPSA GITGVSHCIWAQVF
5125	13176	A	5988	3	395	PAGGPAAGRAAARAGAMAKLLSCVLGP RLYKIYRERDSEAPASVPETPTAVTAPH SSS/WGYLSLSKVVPFSHYAGTLLLLLAG VACLRISGRWTNPQYRQFITLEATHRNQ SSENKROLANYNDFRSW
5126	13177	A	5989	3	414	
5127	13178	A	599	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLTV LAHFHGKEFTPEVQASWQKMVTGVASA LSSRYH
5128	13179	A	5990	3	784	LIALRTCTESPGTTHASADAWKALLSC VLCPRLYKIYRERDSEGAPISETETPTAD TAPHSSWDYYYQPRALEKHADSILALA SIFWPISYYSCFFAFFLYRKGYLSLSKV VPFSHYAGTLLLLLAGVACLRIGIGRWT NPQYRQFITLEATHREPSLQKTKROLAN YNDFRSWPVDFHWEEPSSRKESSRGGS RRGVALLRPEPLHRGTADTLNRVKKL CQITSYLVAHTLWRRMLYPGSVYLLQK ALMPVL
5129	13180	A	5991	461	660	
5130	13181	A	5992	1	1774	MSSSEEVSWISWFCGLRGNEFFCEVDED YIQDKFNLTGLNEQVPHYRQALDMILD EPGIGRWTPNPQYRQFITLEATHRNQSSE NKRQLVYYFFDFRSWPVDFHWEEPSSR KESRGPSRRGVALLRPEPLHRGTADTL LNRVKKLPCQITSYLVAHTLGRRLYPG SVYLLQKALMPVLVQQAARLVEKCNGL RRAKLLACDGNEIDTMFVDRRGTAEPQ GQKLVICCEGNAGFYEVGCVSTPLEAGY SVLGNHNPFGAGSTGVFPQNEANAMD VVDQFAIHRLLFFHPQDIIYAALAIGGFAT WAAMSYPDVSAMILDASFDDLPLALK VMPDSWRGLVTRTVRQHLNNAEQLC RYQGPVLLIRKTQDGNLTPTVPKDCSN RANCLLVKALQHRYPGVMAEEGLLVA RQWLEASSQLEEASYSRWEEEDWCLA SVLRISYQAEHGADFPWSVGEDMSAD GVRQAGPLFPGLGKASCHNFGGPTHCT PLPSPQNFPRCPWHPLGTQLGLIMEEWG ERRHEERPFLFVILLCFMFAVYKFCGKV

						GGPFPLTTVPLARFSPFMWLYLTFSNIH PALHEMG
5131	13182	A	5993	3	180	
5132	13183	A	5994	1	1015	MIAPLGLGV LARDQYRQAALADWDLKL DGG RQSTGAVSLKEIIGLEGVELGADGK TVSYTQFLPTNAFGARRNTIDSTSSFSQ FRNLSHRSLSIGRASGTQGS LDTGSDLGD FMDYDPNLLDDPQWPCGKHKRVLIFPSY MLCTQLPCSQAFCSTVHSSDLSLHERN EHPCKKHNCLLQEGHSPLQAPGFRRALV VAPMQVFPLLMALGVTTVIDYVKPSDL KKDMNKFFKEKFPHIKLTNLKIRTLKRE MRKLAQEDCALEEPTVPMAFVYFEKLA LK GKLNKQNRKLCAGACVLVSSQYKFG SDLKKHEVKHLIDKLAEEKFRLNRARTGF AF
5133	13184	A	5995	48	327	EELEALRR\QRLAELQAKHGDPGDA\AQ QEAKHREAEMRNSILAQVLDQSARARV SEQGLIEILKKVSQTEKTTTVKFNRKV MDSDEDDY
5134	13185	A	5996	52	281	VSKLKHLKPEKTKAVENY\LIQMARYG QLSEKVS LDSLEELYCYLLYQNMASKGQ LHLHWITEFLTLRRNCWRE
5135	13186	A	5997	1	280	GNPLFFLELHWNPSLRIQACDRIYRVG\Q QK\DV SIPRFVCGGTVEESILHFQEKIDL AKQFLSGSGESVTKLTLSDLRVLIGIYPP VDRVSE
5136	13187	A	5998	36	512	LFVLLQVNVSGNELCLMTSHLESTRGHA AERMNQLKMVLKMQEAPESATVIFAG DTNLRDREVTRCGGLPNNIVDVWEFLG KPKHC\QYTWD TQT ELLILGITA\ACKLR FDRIFR\AAAEEGHIIPRSLDLLGLEKLD CGRFPSDHWGLLCNLADIL
5137	13188	C	5999	205	519	MGKEGVHGGLINKKCYEMAFPLQAFPV LTSSVSPSP LPTALHPFXXHTHTNHFIF WAITPYPLLLPKPHGLGARAGWTDTSFY PYPSRVWLENFCFLGFFSE*
5138	13189	A	6	144	398	
5139	13190	A	60	713	811	IPGRP WRL*A*PVTLRLQTQATCGG*MV RASL
5140	13191	A	600	3	496	HSLFGTSEVINKLRSPDAMGHFTEEDKG TITSLWGK\VNVEDAGGETLGRLLVVYP WTQ\RFDSFGNLSSASAIMGNPKVKAH G\KKVLTSLGDAIKHLG*SQGAPFAQA*S ELH\CDKAALLDPEELSSFLGEMLLGDPF LGNPIFGQKNFTPEGCKAFLGQKDG

5141	13192	A	6000	3	939	FLKLHLQSSVSGLASGGGREGWAGSGV RGLLHRSRSGPDGSACPELSASPRPASR GSSSPVRGRQQRPRAAPVAAPWPCWN AYIDNLMADGTCTVGAIVRYQDSEPPV WA\AVPGKTFVNI\TPA*GGLSLVGKDR SSFLR*MGLTLWGGQK\CSVIRGLTCLQD GEF/SAMDRLRYQEPGGAPTFCQSLFTKT \DKDG*VLADGAKEGVHGGTL\NKKCYE MASHLSGFPSTDHRLSLPLHRSPTAFAPL SSPYTHHPFLFFGPLPHTPYCCQNHMGL GGQGLMGQTPSPTHIPSRVWYGKLLFFG VFFFSE
5142	13193	A	6001	172	407	
5143	13194	A	6002	1	185	ESSCLSLPSSWDHRHGRPWLA DFSVFF/C YRNSLTMLPRLGL\NSWPQAILPPWPPKV LGLQA
5144	13195	A	6003	1	618	
5145	13196	A	6004	1	478	HPVRRFFVHRGPH/VDFSLEVVSQWYELV VFTASMEIYGSAVADKLDNSRSILKRRY YRQHCTLELGSYIKDLSVVHSDLSSIVIL DNSPG\AYRSHPDNAIPIKSWFSDPSDTA LLNLLPMLDALRFTADVRSVLSRNLHQ HRPLTGTGGTLGEPNQCL
5146	13197	A	6005	2	833	WNSAELGRGGPGAGGAGVIGMMRTQC LLGLRTFVAFAAKLWSFFIYLLRRQIRTV IQYQTVRYDILPLSPVSRNRLAQVKRKIL VLDLDETLIHS HDGVL RPTVRPGTPPDF ILKVVIDKHPVRRFFVHKRPHVDFLEVV SQWYELVVFTASMEIYGSAVGRLNWD NSRSIL*GGRY\YRQPAPLELGSYIKGPL CWFHSDLS\SIVILDNSPGAYRSHIPGYGG R\DNAIPIKSWVSVTPS\DTALLNLLPMLD ALRFTADVRSVLSRNLHQHRLW
5147	13198	A	6006	2	258	EAESRSVPRLCSGPILAGCMLHLPGSC HFPASASQVAGTT\HARHHTQLIF\AFLVE NGLC*PGWSRSPDLVIRLPWPPKVGLQ A
5148	13199	A	6007	60	429	IRGQYMWGPVSSSLFCSMGYLVFGFFSFI FFFCDEVLLLSTRIECNGTISGH\NCLP GSSHSPVSASRVAGTTGARNKARLIFYF FLVEMGFHHISQDGLDLL\NLVIRPPWPP KVLGLQA
5149	13200	A	6008	1	1047	SCGWTFTSMKLLRHRRKHDDDRRFTC PVEGCGKSFTRAEHLKGHSITHLCTKPFE CPVERCCARVSARSSLYHKKHVQDVG APKSRCPVSTCNRLFTSKHSMKAHMVR QHSRRQDLLPQLEAPSSLTPSSELSSPGQ RELTNMDLAA\LFSDTPANASGSAGGSDE ALNSGILTIDVTSVSSSLGGNLPANNSSL GPMEPLVLVAHSDIPPSLADSPVLGTAA TVLQQGSFSVDDVQTVSAGALGCLVAL PMKNLSDDPLALTASNSNLAHITPTSSS TPRENASVPELLAPIKVEPDSPSRGAVG QQEGSHGLPQSTLPSAEQHGQAQDTELS AGTGNYLV
5150	13201	A	6009	66	423	MEVACRQSTSWQPMDLASSSDFRPRMQ NPTTNRHSQANSCLQGDGPRRMSASKR YFEKTNAICRPSSFTKHSRESSGSPGVSRS CTGTRF*NVTKQPYFTSSKHKRTGKVKV RISVV
5151	13202	A	601	24	452	APSPDAMG/HSLWGVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMTGVASALA SSRYH

5152	13203	A	6010	44	283	FSCLILHDAFPCLILHDAFPCLSVTGS VLSRVPLRGTHQKSAIATSTKIALSNM/KI LKHHTDAYFKKQQLFFDVSKK
5153	13204	C	6011	107	118	MAV*
5154	13205	A	6012	197	683	SLEVPGLFLLYLSFILLYSCFPLSNRVLLC HRDPFLSFLDLFLPAFSPDYVQFLFL*C/ PQFSIRH*TL*MLHCKCLDFFFFFFFETR FHSP\SLRLECSGMISAYCSPTSQTQVRG TTGTCHHAWLVFIFSVETGFHHVAQPD QLLP\PRPPKVLRLOV
5155	13206	A	6013	1	415	LWREGPKWN/AARLNESTTFVSRSPTIA CGMVGTIVRFYIKSP\HLFYAADPRDK HWL\AEQHHRATGG\KMAYLLIEDIP GPCGPMITEDALDLKLEGIEIPLSLPSW MVEKMRKYMETLRTENEHRAVEAP/PQ T
5156	13207	A	6014	1	1256	
5157	13208	A	6015	2	1594	GRPARGAPQRGQTPEAGADKRATAGLC GGGGGRRRHRASGRRAGRGEPAAGLKS QGQRAVPKRAVARGGRQ\YSAIALLEP AGSEIADDLSILYSNRAACYLKEGNCSG CIQDCNRALELHPFSMKPLRRAMAYET LEQYGKAYVDYKTVLQIDCGLQLANDS VNRLSRILMELDGPNWREKLSLIPAVPAS VPLQAWHPAKEMISKQAGDSSSHRQQGI TDEKTFKALKEEGNQCNDKNYKDALS KYSECLKINNKECAIYTNRALCYLKLCQ FEEAKQDCDQALQADGNVKAFFRRAL AHKGLKNYQSLIDLNKVILLDPSIEAK MELEEVTRLLNLKDKTAPFNKEKERRKI EIQEVNEGKEEPGRPAGEVSTGCLASEK GGKSSR\SPEDPEKLP\IAKPNNAYEFGQII NALSTRKDKEACAHLLAITAPKDLPMFL SNKLEGDTFLLIQSLKNNLIEKDPSLVY QHLLYLSKAERFKMMLTLISKGQKELIE QLFEDLSDTPNNHFTLEDIQA\KRQYEL
5158	13209	A	6016	1	449	MAEGEITTFALTTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQHI QLQLSAESVGEVYIKSTETGQYLAMDT DGLLYGSQTPNEECLFLERLEENHYNTY ISKKHAENWVFGVGLK\GPRTHYGQKAIL FLPLPVSSD
5159	13210	A	6017	1	153	
5160	13211	A	6018	1	528	
5161	13212	A	6019	223	513	QRGPLEDPSPGWHSGWDKGQERPAHRH QMRNVCSWKGWRRITITPIYPRSMQRR GLLASRRMGAANAVLGLTMARKQSC*A MAEGEITTFALTTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQH QTPNEECLFLERLEENHYNTYISKKHAE KNWVFGVGLKNGSCKRGPRTHYGQKAIL FLPLPVSYNSRDLFWEG
5162	13213	A	602	38	538	APSPDA\MGHFTEEDKATITSLWGKVN E\ADAGGETLGRLLVVYPWTQRFDSFGN LSSASAIMGNPKVKAHGKVLTSLGDA IKHLADDLKGTFQAQADVNCTCDK\HVD PENFKLLGNVLTVLGNPIFGKEFTPEG CKASWAERWVTWSWPVPCSSRIPLKPL CP
5163	13214	A	6020	1	812	MAEGEITTFALTTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQHS GLNYSWTMHQRLQALRTNDHFAGAHA VPSDAQVMGMDAGVYTSSKTIAAFVIVL LYHSQVHLSVSLIMQKPQVQGPWLALS QQQLEDVGLNWNEVTLESWTSPQLHK PLSLVQLQLSAESVGEVYIKSTETGQYL AMDTDGLLYGSQTPNEECLFLGGLEE NHYNTYISK\KHAENWVFGVGLKNGSC

						KRGPRTHYGQKAILFLPLPVSSD
5164	13215	A	6021	1	1471	MESMFSSPAEALQRETGVPGLLTPLPD LDGVYELERVAGFVRDLGCERVALQFP DQLLGDAVAVAAARLEETGSKMFILODT AYGSCCVDLGAEQAGAQAQALIHFGPAC LSPPARPLPVAFVLSSTFCGLGTLCQDLW GPKPRPQSACGAA\GEPACAHAEALAT LLRPRYLDLLVSSPAFPQPVGSLSPPEMP LERFGRRFLAPGRRLEEYGAIFYVGGSK ASPDPLDPLDLSRLLLGWAPGQPFSSCCP DTGKTQDEGARAGGLRARRRYLVERAR DARVVGLLAGTLGVAQHREALAHLRNL TQAAGKRSYVLALGRPTAKLANFPEVD VFVLLACPLGALAP\QLSGRLFQPIAPCE LEAACNPAPPPGLAPHLTHYADLLPGS PFHVALPPPESELWETPDVSLITGDLRPPP AWKSSNDHGSALTPRPQLELAESSPAA SFLSSRSWQGLEPRLGQTPVTEAVSGRR GIAIAYEDEGSG
5165	13216	A	6022	1	343	PTRPPTRPRTHGQECPLDPVDLFRTR AGDPLRRVSSSFNKNLIFSIKQPPPC AFHPRDPPGGSKRPLFWDPFKGPILAPI LSLTQIFFRWSCFFPKSRIAQGWALS
5166	13217	A	6023	3	919	
5167	13218	A	6024	3	275	GLRLGKIGRD\CLIGYGASMLLLERLMIS SDAFEVDVCGQCGLLGYSGWCHYCKSS CHVSSLPWPYACKLLFQELQSMNIIPRLK LSKYNE
5168	13219	A	6025	455	679	
5169	13220	A	6026	1	2064	MTASIRRYHTCATDGEPSVVLVGDDGD LTLLVAALGLDLGLPFMLLPMEWMR VAITYAEHRRSLTVDSGDIRQAARLLLP/ GPEHCFSSFR\RLDARAATEKFNQDLGFR MLNCGRD\LNQAI\ALGPDGVNTMDD QGMTPLMYACAAGDEAMVQMLDAGA NLDIQVPSNSPRHPSIHPDSRHWTSLTFA VLHGHISVVQLLDAGAHVEGSAVNGG EDSYAETPLQLASAAGNYELVSLLSRG ADPLLSMLEAHGMGSSLHEDMNCFSHS AAHGHRGIWGLVTLGPLACLEEDHETP SPRPVQSSPSGQEGTGGQLRNVLRKLLT QPQQAADVLSLEEILAEGVESDASSQ GSGSEGPVRLSRTRTKALQEAMYSAEH GYVDITMELRALGVPWKLHIWIESLRTS FSQSRYSVVQSLRDFSSIREEEYNEELV TEGLQLMFDILKTSKNDSVIQQLATIFTH CYGSSPIPSIPEIRKTLPARLDPHFLNNKE MSDVTFLVEGKLFYAHKVLLVTASNRF KTLMTNKSEQDGDSSKTIEISDMKYHIFQ MMMQYLYYGGTESMEIPTTDILELSAA SLFQLDALQRHCEILCSQTL\SMESAVNT YKYAKIHNAPELALFCEGFFLKHMKALL EQ\MPSGSSSTAAAACRAWIHCRCTRT PWQSACTLSTSPPGSAA
5170	13221	A	6027	2	144	LFYEMESCSIAQAGVQWLSLGLLQAPPP/ GSCHSPASASCELMFFKI
5171	13222	A	6028	163	465	
5172	13223	A	6029	1	1614	
5173	13224	C	603	83	349	
5174	13225	A	6030	163	1917	

5175	13226	A	6031	133	424	PFLCDLFHLVIFISDSLFLMVIDFVNGTFM ISFINRILLGQNRDGI VFTDDYFHHQDG YRYNVNQLGDAHDWNQNRGLFWAKCP RIEYLARSQKT
5176	13227	A	6032	3	270	FKMESGSVAKLECRGTISAHCNLRPPGS SDPPASASQIAATTGVHHHNRLIPAFLVE TGfCHVDQAGLELLT/LVIHPPRPPKVLG LQA
5177	13228	A	6033	407	720	RHNSSNFFFFFFFETESRSIAQACMQWC YLSSLQSLPPGFKRFSCLSLPSSWDDRCF PPCLANFVFLVETGFCHVGQAGLELLIS GDPPASASQSTGITGMI
5178	13229	A	6034	1	135	KEAPGLKKENN\CFVCAICQINMEGKTL SKKDRPICKSHAFFHV
5179	13230	C	6035	96	410	
5180	13231	C	6036	108	422	
5181	13232	A	6037	2	195	CLPRFMPILPASTSQVAGNTGAHHHARLI FVFLVEVGFHHVVGQAGLL/ISLPQMIHPP RPPKVLGL
5182	13233	A	6038	251	377	LGLAQTLNDNPLLGGEGLECAPTGPLEPP LAYTVNLILKSKARRTEPQKQYFSSHAK NGG*REGVAA*APTGPLEPLAYTVNLIL KSKA
5183	13234	A	6039	175	393	ARPTFRLYLSLPVSQAGQQREAE/HPRL VPTGPTHREPSPVRYDNLSRHIVDLSVAP RGEESRRCQGLVVHL
5184	13235	A	604	295	448	NQTCVCWHACAYVSSNRVPWSIGSAIRS VCCYPLPFPALCAPCL*ISTALD
5185	13236	A	6040	1	537	
5186	13237	A	6041	1	1555	MPYSLNLAI RDTFVNASRTLYSSSPRVLS NNSDANLELINTWVAKNTNNKISRLIDS LPSDTRLVLLNAIYLSAKWKTFDPKKT RMEPFHFKNSVIKVPMMNSKKYPVAHFI DQTLKAKLSRGDSLKEPTSIAESSRHPSY RSEPSLEPESFRSPTFGKSFHFDPLSSGSR SSSLKSAQGTGFELGQLQSIRSEGTTSTS YKSLANQTRNGSLSYDSSLTPSDSPDFES VQAGPEPDPLGYTSPFLSARLAQQREA ERHPRLVPTGPTHREPSPVRYDNLSRHIV ASLQEREKLLRQSPPLPGREEEPGLGDSG IQSTPGSGHAPRTSSSSDDSKRSPLGKTP LGRPAVPRFGKPDGLRGRGVGFPEPGPT APYLGRMSYSSQIAQPGVSETEEVDLRP LLTPKDEVQLKTTYSKSNGQPKSLGSAS PGPGQPPLSSPTRGGVKKVSGVGGTTYEI SEFDHHC PWVNNCIGRRNYRYFFLFLLS LTAHIMGVFGFLLYVLYHIEELSGVRT AV
5187	13238	A	6042	1	627	TRREAERHPRLVPTGPTHREPSPVRYDN LSRHIVASLQEREKLLRQSPPLPGREEEP GLGDSGIQSTPGSGHAPRTSSSSDDSKRS PLGKTP LGRPAVPRFGKPDGLRGRGVG SPEPGPTAPYLGRMSYSSQKAQPGVSE TEEVALQPLLTPKDEVQLKTTYSKSNGQ PKSLGSASPGPGQPPLSSPTRGGVKKVSG VGGTTYEISV

5188	13239	A	6043	3	2265	PTWLERGGGEPARPQTPQPTAPESRGP SGASALRCRGPTARSLPAASMLGAPDES SVRVAVRIRPQLAKEKIEGCHICTSVTPG EPQVFLGKDKAFTFDYVFDIDSQQEQIYI QCIEKLIEGCFEGYNATVFAYGQTGAGK TYTMGTGFDVNIVEEELGIISRAVKHLF KISIEKKHIAIKNGLPAPDFKVNAQFLEL YNEEVLDLFDITRDIDAKSKKSNIHED STGGNLYCGRLPTRTVNTESEMMQCLK LGALSRTTASTQMNVSRSRSHAIFTIHVC QTRVCPQIDADNATDNKIISESAQMNEFE TLTAKFHFDLAGSERLKRTGATGERAK EGISINCGLLALGNVISALGDKSKRATHV PYRDSKLTRLLQDSLGGNSQTIMIACVSP SDRDFMETLNTLKYANRARNIKNKVMV NQAELVSKSMHFVVKSHDFRWSSWST KPGKRIIDEEGVESINDMFHENAMLQTE NNNLRVRIKAMQETVDALRSRITQLVSD QANHVLARAGEGNEEISNMIHSYKEIED LRAKLLESEAVNENLRK\NLTRATARAP YFSGSSTFSPTILSSDKETIEIDLAKKDLE KLKRKEKRKKKSVAGKEDNTDQEKK EEKGVSERENNELEVEESQEVSDHEDEE EEEEEEEDDIDGGSSESDSESEDEKANY QADLANITCEIAIKRKLIDELENSQKRLQ TLKKQYEEKLMMLQHKIRDQTLERDQV LQNLCSVESYSEEKKKK
5189	13240	A	6044	2	323	EDQGLYSIRMEGARGCLAKSLAL*GAGR GFYSGERTWTLSPSGNCAPYQRRGW WSHA*AHSNLNGVWHHGGHYRSRYQD GVYWAEFRGGAYSRLKAAMLIRPLKL
5190	13241	A	6045	3	902	PFFCSTISYRLCPEGAAGQKKVLPPLV PVVPVRLVGSTRDTSRMRDPAEPQRDQ TQRQQEPMASPMPAGHPADPTKPVGPW QDCAEARQAGHEQSGVYELRVGRHVVS VWCEQQLGEGGWTVIQRQDGSVNVFT SWQHYKAGFGRPDGEYWLGLEPEHHL TSRGDHELLVLKEDWGGRGARAHYDG FSLEPESDHYRLRLGQYHGDAGDSLW HNDKPFSTVDRDRDSYSG\NCALYQRRG WWYHA\CAHSNLNGVWHHGGHYRSRY QDGVYWAEFRGGAYSRLKAAMLIWPLK L
5191	13242	A	6046	3	218	KAVSLSVTQAGVQWLISLQSPPPRFNRF SCLSLPSSWDYRQVPPRPANFCIFSRDRV SPCWPGWSPTPNLK
5192	13243	A	6047	1	297	MVVSLEYFPHPSFPVLLCLVLCPRGRLIL RDCNPRLPFV\IDF\CLGLVNGMPWHSF GGKKREDNVFLHCSHSDLG YVLLAGTA SLQDFSFFQKSPPP
5193	13244	A	6048	1	8157	
5194	13245	A	6049	1126	1355	
5195	13246	A	605	43	208	ARTLIEVIGLSHHNQKAHAMLNNAF*SSI RASP*RSKY*SSLWNQTSRFQIPAPT

5196	13247	A	6050	1	1627	MGSRCLNPPPPAHSDDTGKDSFGNIRGA ETGQGASACSVTSARVTCGAGSEPHSHR NPGISAQVGLAPSYGAARGRRRPLALQQ SPOERRHVGNSTRGLLPASLPGTASSQ SASATASAALPLKVTGPLARNPTPPWTA AAALATRGQRPEKGLFPGPAPFSLGKRK RGRGRTWERRRRVSIETSTCFRPGCERL GAAAGANLSQLASSQRPLRERWVLYTII MAAAGAPDGMEEPMDTEAETVATEAP ARPVNCLAEAEATAGAGAGTVAEDSGTA RGSQPAPAPAPAGDPVSQASVSNGE DSGGSADSELVDLRIWNKTKHDVKFPL DSTGSELKQKIHSITGLPPAMQKVMYKG LVPEDKTLREIKVTSKAKIMVVGSTINDV LAVNTPKDAQAQDAAEENKKEPLCRQ KQHRKVLDKGPEDVMPSVKGAQERLP TVPLSGMYNKS GGKVRLTFKLEQDQLW IGTKERTEKLPMGSIKNNVSDPIEGHED YHNDGRFQLAPTEAISYYWVYVWPTQY VDAIKDITVLGKWQYF
5197	13248	C	6051	47	298	
5198	13249	B	6052	64	362	XCVWHRRKVAVNLAKLKLFRHYVVMV ICYVYFTRIIAILLQVAVPFQWQWLYQPT GNNPYLQLPQEDEEDVQMEQVMTDSGF REGLSKVNKTASGRELL*
5199	13250	A	6053	1	342	
5200	13251	A	6054	1	485	
5201	13252	A	6055	696	3195	SGRRTPMASCRQRRCPFSSSTWSCPPAS WPLASSGCPSSAGTRTASFHHLWMAAL AFTKSISLLFHSVRALDRGAAGAPITSFES HPPSSLFNFLTTHLMVTVRVPNPPPPSA SHPSVRLTVRLSIHPQINYYFINSQGHPIE GLAVMYIAHLLKGALLFITIALIGSGWA FIKYVLSDEKKVFGIVIPMQVLANVAYI HIESREEGASDYVLWKEILFLVDLICCGAI LFPVVWSIRHLHGCVWHRRRMVAVNLA KLELFRHYVVMVGARLTHSGFGGITGL LHAHPSPSAAAPSRGPHGSPARILQSSP MPARAPTVLAPRLLAPLQVICYVYFTRII AILLQVAVPFQWQWLYQLLVEGSTLAFF VLTGYKFQPTGNNPYLQLPQEDEEDVQ MEQVEAHTLKLKLVKDIKSTVSNVSEMK ENMDKELKQIMRMIEYERRICVADPFVET VMQDFFIDRLPYSVVRNEQVEIRAVLY NYRQNQELKVRVELLHNPFCSLATTKR RHQQTVTIPPKSSLSVPYVIVPLRPACRK WKSRLSTHSSVTVSGKGVQKEDIPPAD LSDQVPDTESETRILLQGTVPVQMTEDA VDAERLKHLLVTPSGCGEQNMIGMPTV IAVHYLDETEQWEKFGLEKRQGALELIK KGYTQQLAFRQPSSAFAAFVKRAPSTWL TAYVVKVFSLAVNLIADSQVLCGAVKW LILEKQKPDGVFQEDAPVIHQEMIGGLR NNNEKDMALTAFVLISLQEAKDICEEQV NIHNRYAATRQLMVAKISGKFSKMDKS KTAGLADCHSVLDVSNKGVLRDVASTS SGIVDWRGSQLQT
5202	13253	A	6056	1	516	LRQPTRPVFGIVIPMQVLANVAYIIIESRE EGASDYVLWKEILFLVDLICCGAILFPLV WSIRHLK DASGTDGKVPVNLPLKLFRRH YYVVPAPTPCAPLQVICYVYFTRIIANPL QVAVPFQWQWLYQLLVEGSTLAFFVLT GYKFQPTGNNPYLAVAPGGRGGCSRWS K

5203	13254	A	6057	3	528	LSCRVQVSVAPPRPRPALPVSAVPGTPGT LTPALLHP/WLADCDVSDSSCSSLAATLL ANHSLRELDLNNCLGDAGILQLVESVR QPGCLLEQLVYVQVRAGRVPRLFREE GGGGGGHWAHASLLACVQPVROFTGLR RWRTGLQPGERTSTSLRGHLLRLFLL AAALDDRP
5204	13255	A	6058	1	334	
5205	13256	A	6059	225	843	WTRCWSRLRASGSSCEGRRAAPPRPCA RYEGGYQRSCGSESACGGRRVLGSSLRQ HQGSCRNTRAGMFCGRQYIPHPASAAPR RPLGRSRNTQMGTPLSRVLLRSCRKKID/ SLKQKVTHLRGLQIPHEPELMRKEISRLN KTVGRENK*LSRSEAGAGGLQVEARDA LERVQMLEQQVSVPRAPDGTQMSAGR WWPKSWDRLG
5206	13257	C	606	892	1269	
5207	13258	A	6060	300	957	GSTKVHAETHALGCSVADSTSRTHQQL HRGAHWGEVGTWRWHTSVQSVIEKLQ EENRLLKQKVTHVEDLNAKWQRYNASR DEYVRGLHAQLRGLQIPHEPELMRKEIS RLNRQLEEKINDCAEVKQELAASRTARD AALERVQMLEQQILAYKDDFMSEADRA ERAQSRIQEELEEKVASLLHQVSWRQDSR EPDAGRIHAGSKTAKYLAADALELMVP G
5208	13259	A	6061	2	271	FFETESRSVARLECSGAISAYCTLCLPGS SDSIASASRVAGITGEHHHARLILVFLVE MGFHHVGQAGLGLDLVIHPPRPPKVLG LQA
5209	13260	A	6062	3	376	DYSLGLPVVTTCGWGHMSNAPLRWALN PSYWGKNQLLCPESALCCGLCKPRFL EVTSVRSADLYLSSPCLVRRCPFRGKE KPAVGMRMPDNKGWRRALSSSLSPRVP APVAASVLTVMN
5210	13261	A	6063	2	70	
5211	13262	A	6064	3	258	ADPPSPSFCFCFFETESCSVTRLECSG AILAHCNLC/LPTCHHAWVIFVFLVETEF HHVGEDGLNLL/NFMIYLPKPPKVLGLQ A
5212	13263	A	6065	1	408	
5213	13264	A	6066	3	25	
5214	13265	A	6067	3	503	
5215	13266	A	6068	1	1740	MAAVVAATRWWQLLLVLSAAGMGASG APQPPNILLMLDDMGWGLGVYGEPS RETPNLDMAAEGLLPNFYSANPLCSP SRAALLTGRLPPIRNGFYTTNAHARNAYT PQEIVGGIPDSEQLPELLKKAGYVSKIV GKWHLGHRPQFHLKHGFDEWFGSPNC HFGPYDNKARPNIPYRDWEMVGRYYE EFPINLKTGEANLTQIYLQEALDFIKRQA RHHPFFLYWAVDATHAPVYASKPFLGTS QRGRYGDVREIDDSIGKILELLQDLHV ADNTFVFFTSDNGAALISAPEQGGSNPFP LCGKQTTFEGGMREPALAWWPGHVTA GQVSHQLGSGIMDLFTTSLALAGLTPPSDR AIDGLNLLPTLLQGRMLDRPIFYRGDTL MAATLQGHKAHFWTWTNSWENFRQG IDFCPGQNVSGVTTHNLEDHTKLPLIFHL GWDPGERFPLSFASAEYQEALSRTSVV QQHQEALVPAQPQLNVCNWAVMNWAP PGCEKLGKCLVTPESIPKKCLWVPLAPA QTQARPRISWPCKCLEEGWLWPRSSPN PAPSQTDSTCRRRGTCITISNLPT
5216	13267	A	6069	3	2945	
5217	13268	A	607	187	363	MPLRLPIQDVY*IGGIGTALVGRVESGAV NYGLVGSSVH*AVQSVALDFRFSWML YSQ

5218	13269	A	6070	2	3078	
5219	13270	A	6071	3	3204	AGRGRLWGGTASREPQKSAGKFPRWGA FRASRTALGPGARSQERGGGNAPRPP PPRRLPPAAVLAAA VAAAAALPRRGAAL KGGTPPPGALAAARAPREPVAAMPPRAPP APGPRPPRAAAATDTAAGAGGAGGAG GAGGPGFRPLAPRPWRWLLLLALPAACS APPRPVYTNHWAVQVLGGPAEADRV AAHGYNLGGIGNLEDYYHFYHSKTFK RSTLSSRGPHTFLRMDPQVKWLQQQEV KRRVKRQV
5220	13271	A	6072	3	3002	
5221	13272	A	6073	1	1181	MEVSRAGLSTVLEAVLCPADLTAASLDA ASPMPSSSHLPVLGYPVGKSGARPGSTQ EVVLTAAAVTQEVVLTAAAVTQEVVLT AAAVTQEVVLTAAAVTQEVVLTAAAVT QEVVLTAAAVTQEVVLTAAAVTQEVVLT TAAAVTQEVVLTAAAVTQEVVLT ENKPVSAPHSSSTCARTGSPGRPLHTQSP PRGHILFGKEKVCYKFKHDILKHLTQLT VDGIVS!PLVQVLRRTALTSAEHSQDR VVYLEHVVRTSISHPRRGDLQIYLVSPS GTKSQLAKRLDLSNEGFTNWEFMTV HCWGEKAEGQWLEIQDLPSQVRNPEK QG/DVFCTKCHSHQSFEESQDTKSVVAW EGWGCTHGVHCEVPKNLGRSGKHHP KIKLV
5222	13273	A	6074	3	656	RSAFELWTQEGGLPSPSGW/VIIQSLKLN NRTDSRGRSSPLISCLATGAGTSRHLLP LDWMSTIGCPGSQASRPESLNHTSGFP GFPAFHPRWWAFSGPQSHNQIPHPKSPL CVGSLLQRAYTNTLPLFPLQFLRSPTKES TYSQLHPSGSPPGGGPGPRQLGLTSPKAS EQPLPGFDWEGQGSRRAGADGSGRES SGTPGTAVLQRSSCGTSC
5223	13274	A	6075	3	873	AAEGLPVVRIPPFSETTANGTISFTEMVQ DMGAGLAVVPLMGLLESIAVAKAFASH NNYRIDANQELLAIGLTNMLGSLVSSYP VTGSFGRTAVNAQSGVCTPAGGLVTGV LVLLSLDYLTSFYYPKSALGAVIIMG RGPVSTPRSFNALGFLKRLDLLPLCVT FLLCFWEEQDGLAGALGSLLMLLSAA RPETKGSEGPVLVLQPASGLSFPAMEAL REEILSRLEVSPPRCLVLECTHVCSIDYT VVLGLGELLQDFQKQGVAFEGQLQVP RLRVLLSR
5224	13275	A	6076	3	256	HASGMKNDLVYTGVDPETLPNRNGDGV /PTGLSPDPQFRIRKIQASLLTLEETMKQ LEELEEEFRRLKPLLANLGGNSVPHPGCT

5225	13276	A	6077	1	1966	MAEPLLRKTF SRLRGREKLPRKKS DAKERGHPAQRPEPSPEPEPQAPEGSQAGAEG PSSPEASRSPARGAYLQSLPSSRRWVLG GAKPAEDTSLGPGVPGTGEPAGEIWYNP IPEEDPRPPAPEPPGPQGSASEGLAPQG AAPASPPT/NSLPHQVPGPRQAPLHKDEE AAGTAAPPEPARPPGWQGAREGPCGL RHQPLPPGQQRGGPRAGSRAWGHPEPE GRLPQRRGLTGAPSWAPITHLLPALRGG SRSPGTPGRTLGPQPAPVRSRGAAASA GGHPQGPLLPTASGWGGQGNRATARG AGLPAAGPHLPPGAGGRQAPARPGACV GPWREKAPALCPGHRAAAHGLPR/CQA QQLAVRLEPQGLLYAKLTLSEQQEAPAT AEPRVFGLPLPLVERERPPGVPLIIQKC VGQIERRGLRVVGLYRLCGSAAVKKELR DAFERDSAAVCLSEDLYPDINVITAVPSL ALEASGALTRGDPVFTGILKDYLRLELTP LITQPLYKVVLEAMARDPPNRVPPTTEG TRGLLSCLPDVERATLTLDDLRLVSSF HAYNRMTPQNLAVCFGPVLLPARQAPT RPRARSSGPGLASAVDFKHHIEVLHYLL QSWP/IPACPDNLQMSRLTCDPNDSHLCT CRWQTPKW
5226	13277	A	6078	2	82	
5227	13278	A	6079	1	347	FFFFFFFFLETASHVAQAGGQGHDLSSL QPPPPRFKQFSLSLPSSWDHRHKPPHPA NFVFLVETGFHHVQGAGLELLTSSDPPA SASQMAGITGVSHCAWPITIFKQSNYGM L
5228	13279	A	608	514	792	DSRCPGAMACALRAPPRITNPVSAQWDP ETGSVAGEPWIWQQRERNQSALQRGNV PFCRCRDHEFTL DLGGQGGQIT*GQEFET SLANMAKPH
5229	13280	A	6080	1	779	
5230	13281	A	6081	1	214	HPTAAIVPPGPEAGLIYTPYEYPYTLAPA TSILEYPIEPSGVLVWLSQRKAKNSRTV LTEPSSDLNLNTNA
5231	13282	A	6082	3	435	EPFPGGDCIPRATLESCRSMIALMDTVGS GKLNLEFHHLWNKIKGWQKIFKHYD TDQSGHHQTATKMRNAV/NTDAGFHLN NQLAYDIITMRYADKHMNIDFDSFICCFV RLEGMFRAFHAFDKDG DGHIKLNVLWL QLTMYA
5232	13283	A	6083	2	339	GKPTLREFTHL/WDKIKGWREIFNNITPS QSGTITGYEMRNA/VNDAGFHLNPLYD IITSRTADNHMNIDFESFICCFVRLEGM FRAFHAFD/KDGDGHI RLNVLEWLQ LTM YA
5233	13284	A	6084	2	775	PSASDQSTWYLDDESTLTDNIKKT LHKFC GPSPVVFSDVNSMYLSSTEPPAAAEWAC LLRPLRGREPEGVWNLLSIVREMFKRRD SNAAPLEILTQCLTYEQITGWWYSVR TSASHSSASGHTGRSNGQSEVA AHACAS MCDEMVT LWRLAVLDPALSPQRREL C TQLRQWQLKVIENVKRGQHKKTLERLFP GFRPAVEACYFNWEEAYPLPGV TYSGT DRKLALCWARALPSRPGASRSGGLEESR DRPRP
5234	13285	A	6085	193	388	
5235	13286	A	6086	2	353	AAAEDLSDALCE/FDAVLADFASPFHER HFHYEEHLERMKRRSSASVSDSSGFSDS ES\ADSLYRNSFSFSDEKLNSPTDSTPAL LSATVTPQKAKLGD TKELEAFIADL DKT LASM
5236	13287	A	6087	315	411	
5237	13288	A	6088	2	283	
5238	13289	A	6089	3	189	

5239	13290	A	609	1169	1335	NFASDDKFSLP*DYTTFKVNWPGAVAH A*NPSNLGGQGGQIT*GQEFETSLANMA
5240	13291	A	6090	1931	3137	KMEISSLKEEINMEPNHSETMFKKAKTK AKKKPRKRSDDSGGYNLSDIIQSPSSTGL LKSGKTNSVESLPELLTSDSEGSYAGVGS PRDLQSPDFTTGFHSDKIEAKVKPYVNG TSPVYSREDLKPWEKSPILKISAPQIPSN RIDTTSASWVAGSFSPVSPVVDLRTIM EIEESRQKCGATPKSHLGKTVSHGVKLS QKQRKMIALTTKDNNSGLNSMQTVICIP SDAP*TVNE*GSSLHSVSSKSFRDFLEE KKSVTSHSSGDHVKKVSFKGIENSQAPKI VRCSTHGTGPEGNHISDLPLLDSPNPWL SSSVTTPSMVAPVTFASIVGRGTSTKEAA LIRSREKPLALNQEIEHAIQDLLVFYEAFG NPEEFVIVERTPQGGLAVPMWNKHGC
5241	13292	A	6091	336	410	
5242	13293	A	6092	40	921	TEVPGVHSENDKNQKKIRKLDPKKKQ VDTVQIIQGSKKGSSFLIFFSPLIITVEL QVGNVVAQELSIQLELFWRTASQSVTE PTAGLCLLNPGEQEMRALRGRRKPLLI PASKQDLEWTSSKLQQTCS*GF*R*KEN* QTERTSTPKPHLVGSSGQGNQAGEGNK GYPVRKRGSQIVPVC*HDCISRKPHCLN PK/YSL**ATAAKSQDTK/FNVQKSQAF LYTNNKQTD SQIMSELPFTIASKRIK YLS NPTYKGC EGPLQGLQTIAQRNKTEPNK WKNIPVMGEEP
5243	13294	A	6093	1	1960	MPPHSEQPHSPSTRQKRKVPLFVRQCPSP VIQAPKAKMDTFDGRKKQFTRFLFLFSM DQLGQGRFSMQTSLFALAVYRKDSPLV ACQVQALGNLEPSSVEAHVSSHGAI DR KGWHVSLFSIQPGDCFPKALVEDSPRDR ARRQSSKEEGWCRDRRLKFHKKGA AAIVVKS KKYESPFGVCFESLLNPPRLT SRREKTISSSKRCRQCHAEETT VVFWAK ESQTGEQTRGAGQRRMGMIICKACSM LPAERQDLRPTSLVISHGVSVKDRREHC QCPNYYPLRNMSPLEHSIKICGGKKPQ NDSQRITITK VIVNQDFKQPDDELSQL SRKETSEASLVTLWELVTAGQTPPLVTP RQTGSGVDLQQTPTDLQLRVLTIRKTN KQKGHPKPHLYVTIHKDQRTLHPKSTEY TFFSAPHPTYSKIDHIVGSKALLSKCKRT EIITNCLSDHSAIKLELRIKLTQNRSTW KLNNLLNDYWVYKEMKAEIKMFFETN ENKDTTYQNLWDTFKAMYSKGFMALN AHKRKQORSKIDTLISQLELEKQEQTHS KASRRQETTKIRAELEIETQKTLQKINE SRSWFFEKINKIDRTLARLIKKKREKNQI DTIKKIKVISPPIPQKYKLLFILFGTGTQIN
5244	13295	A	6094	275	1839	CPSVGFSLQAGVVFCKLLTAKDF*QQT QGFSQ/RLSQLHTHGHRALQKKAISSKNE FTIMGQISEATSALFGEKESKEATLRGEG ARNRDDRVDNSCRLQPPGQDGDGQKV PVKYSAGDTQANRVWSGLQQTPTDLQL RVLTVRRKTNKQKGHPHQNPICTSASSK TKEIQTIREYHKNLANKLENLEEMDK FLDTYTLPRLNQEEVESLNRPTGSKIEAI NSLPTKKSPGDAFTAIFYQRYKEELRIK YLGILTRDVKDLFKENYKPLLNEIKGH KQMEEHSMMLDRKNQYCENGHTAQEL EKTALKFIWNQKRAHIAKTILSQKNKAG GILPDFKLYYKATVTKTAWYRYQNRDI DQWNRTEPPEIPIYHNHLIFDKPKNEK WGKDLFNK WYWENWLAICRKLKLD SF LTPYTKINSRWIKDLNGRPKTIKLEENL GNTIQDIGMGKDFMTKTPKAMATKAKV GKWDLIKLSFCTAKETTIRVNRQPT EW

					EKIFAIYPSDKGLISRI
5245	13296	A	6095	78	1986
					EKTKSASDWCT*K*RG\DGTKLENTLQDI IQDNFPNLGRQANIQIEIQIMPQRYSSRR ATPRHIIVRFTKVMMKEKILRAAREKEIQ TTISEYYKHLKYANKLENLEEMGKLLDTY TLPRQNQEEVESLNRPIAGSEIEAIINSLPT KKSPGPDGFTAKFYQRHKEELVPFLKQ FQSMEKEVILPNSFYEAHILPKPGRDTT EKENFTPISLMIIDAKILNKILANRIQQHIK KLIHQDQVGFISGMQGWFFNEHKSXNVH HINRTKDRNHMIISVDAEKAFNKIQPPF MLKTLNKLGIQLTRDVKDPFKENYKPLL NEIKEDTNKWKNIPYSWIGRINIVEAILP KVSLEERQHDQTHVQSLEKLDLLEQE YNKLTMMQALAEKKMQELEAKLHEEEQ ERKRMQAKAAEHPRCLLYLAIFSAKLN LQDKIRRELERJQAESVKTLSRETIEYK KVLDEQIERENSKNEESKHNLQELTSQL LAAENKCNLLEKQLEYMRNMIKHAEME RTSVLEKQTPLLIPRQGRVLDLQQTPTD LQLRVLTVRRTNKQKGHPHQNPICMSP SSKTKEERSSSPITERSWTENDFELREE GFRRSNYSELKEELQTHGKEVKNLEKKI RRMAN
5246	13297	A	6096	870	1860
					TRKSRRNG*IPGHIHPKTK\QEEAESLNR PITGSEIEAIINSLPTKKSPGTDGFTAKFY QRYKEELVPFLKLFQSIEKEILPNSFY ASILIPKPDRTTKKENFRPISPMNIDAK TLNKTLANRIQQHIKKLIHHDQVGF/HC NARLVQHMQINKRNPAYK*NQRQKPHD YLNRCRKGL*QNSTALHAKTSQ*ISVGSS GQGNQAGEGNKGYSIRKRGSQ\MSLFAE DVIVYLENPIVSDQNLKLSNFSKVSQY KINVLNSQAFLYTNNRQTESQIMSEVPFT IASKRIKYLGIQLTRDVKDLFKENYKPLL KEIKEDTTFHAHG
5247	13298	A	6097	453	545
5248	13299	A	6098	1	235
5249	13300	A	6099	3	706
5250	13301	A	61	1	1194
5251	13302	A	610	24	452
					APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNLVT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
5252	13303	A	6100	368	798
					LSYIYMHPIQ/RAPRFIKQALRDSQRDL SHTIIMGDFNTPLSTLDRPTRQKVNKDIQ ELNSVLHQVDLIDYRTFHPKSTEYTF APHRTYSKIDHIVGSKALLSKCKRGEIT KIKLELRIKKQTQNRSTTWKLNLLND Y

5253	13304	A	6101	1	666	
5254	13305	A	6102	412	681	GDIIPKCSQPLNIHFHYVFKMR*GSSRPG RGPEIRCFSPAARLLLTAHQQWPQLWAI FQQVALLPHAGGADHVILFPPSPVSKAT EKIVG
5255	13306	A	6103	489	585	
5256	13307	A	6104	1	1474	MDMLDKGMIQVPVESLECPEHFVQEPV LPSELRSEKQEPWNQPSLDLEPSFATYM ACSMPLAERQDLRPTSLVISHGVSVKDR REHCQCPNYYPLRNMSPLEHSIKICGGK KPQNDSSQRTTITKVIVNQDFKQDDTEL SQGSRKETSEASLVTLWELVTAGQTFQ DDRMGTAPVYSSQRERRRRRVISACPT PPLVTPRQTGSGVDLQQTPTDLQLRVLT RRKTNKQKGHPKPHLYVTIKDQRTLH PKSTEYTFFSAPHPTYSKIDHIVGSKALLS KCKRTEIITNCLSDHSAIKLELRKIKLTQN RSTTWKLNLLNDYVWYKEMKAEIK MFFETNENKDTTYQNLWDTFKAMYSKG FMALNAHKRKQQRSKIDTLISQLTELEK QEQTHSKASRRQETTKIRAEKKEIETQKT LQKINESRSWFFEKINKIDRTLARLIKKK REKNQIDTIKIKVISPPIPQKYKLLFILF GTGTQIN
5257	13308	A	6105	1	903	
5258	13309	A	6106	803	1184	
5259	13310	A	6107	1458	1568	TQTNLQEKNTTQSKSGQRV*TDTSRKK TFMQPTDT
5260	13311	B	6108	24	2456	MGVSSGDLKGLLHPRVRVGNEYVTKG QSVEQVVFAVGALAKATYDRLFRWLVS RINQTLDTKLPRQFFIGVLDIAGFEIFEFN SFEQLCINFNEKLQOFFNQHMVFLEQE EYKREGIDWVFIDFGLDQPCIDLIEKEE RLKPSRKKITKHKTKRTASLILHAMICC RSLNSSKTKNTKCLNSINQRLKIWSLQK DLMCGTAGRCKTLHGTSQNLNTTAIHVVL ALAGSPKDADDTSIYMFYQKHILYCIVD SECKSRDVLQSYFDLLGELMKFNVDFAK RFNKYINTDAKVFLKQINSSLVDSNMLV RCVTLSLDRFENQVDMKAALLSIPGFVE RLCKLATRKVSESTGTASFLQEELEYT WLDNALVLDALMRVANESEHNQVFW FEQHGLVSGAEKAPGTTIDQAPRIYRWS DLTRTQAQWQSAMTWSMSAFTETFLTE RDKQSKWSGIPQLLLKLHTTSHLHSDFV ECQNILKPLLVIPRQTGSGVDLQQTLDL QLRVLTVRRKTNKQKGHPHQNPICMSPS SKTKEAKNLDKRLDEWLTRINSIEKTLN DLMELNTMARKLRDACTSFSSQFDQVE ERVSVIEDQMNEMKREEKFREKRIKRNK QSLQEIWDCVKRPNLRLIGVPESDGENG TKLENTLQDIIQENFPNLRQVNIQIEIQ RTPQRYSSRRGTPRHIVRFTKVEIKEKIL RAAREKGRVTHKGKPIRLTAVILLAETLQ ARREWGPIFNILKEKNFQPRVSYPAKLSF ISEGEVKSFTDKQMLRDFVTRPALQEL LKEALNMERNNRYQLLOKHAKL*
5261	13312	A	6109	82	1208	LVEGKLTNRKNIHTKTPSVHHHHQRPKC GREMWGQSPHTESLLGHHLVELWEEGH CPLDPRMVDPPACTMYLEKPQTLNASL /WKAARSQVPQGGGKGTCKSETEIQATI REYYNKHLYANKLENLEETEKFLDITYTL PRLNQEEVESLNRITGSKIEAINSPLTK KSPGRDGFTAIFYQGYKEELVPFLKLKLF QSIEKEGILPNSFYEASIIIAKPGRDTATT TKNFRITSLMNIDAKILNKILENQIQHIK KLIHNNQVGFIPGMQGWFNHKSINVIHH IKRTKNKNHMIISIDAGKAFDKIQQPFML KTLNKLIGDGYMLKIIRAIYDKPTANIILN

						GQKLEAFPLKTGTRQGCHSYSTLTTPIQH SV
5262	13313	A	611	3	552	HSLFGTSEVINKLRSPDAMGHL/TPPEEDK ATITSLWGVNVEDAGGETLGRLLVVYP WTQ\RFDDSFGNLSSASAIMGNPKVKAH GKKVLTSLGRCHKSTWDDLKG/TPFAQA *SELHCGQACMWDPEELSSFLGKCCWV TRFWAIPFSAKEFHPWRLQGFPGKSRRW QKMVTGV\ASALVPSRYH
5263	13314	A	6110	1261	2396	LNALYFLLLPDCPGQN**TASKTNKEEK REESNRCNKK**SNITTNPTEIQTTIREYY KHL YANKLENLEEMDNFLDTYTLPRLN QEEVESLNR PITGSEMEAINSLPTKKSPG PDGFTADFYQSVGSSGQGNQAGEGNKG HSIRKRGSQIVPVC R*HDCISRKPRLSPK SP
5264	13315	A	6111	1	819	MCHSAIFTVLQPPLVVIPRQTGSQVDLQ QTPTDLQLRVLTVRRKTKKQKGHPHQN PICMSPSSKTKATFEDSVWHFAERIIPDP NVIKLRKEELTLNNIRQYYVLCEHRKDK YQALCNIYGSITIGQAIIFCQTRNAKWL TVEMIQDGHQVSLLSGEL\TVEQRAPFNQ RFRDGKETVLIT\TNVCARGIDVKQVTIV VNFDLPVKQGEEPDYETYLQRIQRTGRF GKKRLAFNMIEVDELPSLMKIQD\HFNSS IKQLHAEDMDEIEKIDY
5265	13316	A	6112	1	1068	
5266	13317	A	6113	3	655	LLSNDQRCISIFNKTREKASATRVYIVLD NSGFELVTDLILADFLLSSELATEVHFYF KTIPWFVSDTTIHDFNWLEQVKHSNHK WMSKCGADWEEYIKMGKWVYHNHIFW PVPHEYCAMPQVAHDLYAELQKAHLIL FKGDLNRYRKLTDGRKWEFSVPFHQALN GFHPAPLCTIRTLKAEIQVGLQPGQGEQL LASEPSWWTTGKYGIFYDGPL
5267	13318	A	6114	3	225	GACGRPPFPRLPRGAPP/PAMAAFPSP PASAPGAAPTFPPLGPAWHPALFLTGIN LTCFSKEREKEAQSWY
5268	13319	A	6115	2	624	
5269	13320	A	6116	2	594	NRGSCHRG LKFEGAFKYKMGQIEIDDQV EGLQYLASRYDFIDLDRVGIHGWSYGG YLSLMALMQRSDIFRVAJAG\SPVTLWIF YDTGYTERYMGHPDQNEQGYLGSVA MQAEKFPSEPNRLLLLHGF LDENVHFAH TSILLSFLVRAGKQ\YDLQSYQERHSIRV PESG\EHYELHLLHYLQENLGSRIAALKV I
5270	13321	A	6117	4	310	
5271	13322	A	6118	1	601	LQKWSLEYIQEIAGCRTVPVEVGSRYTD EEWSQTLMTVNEFISKYIVNEPRDVGYL AQHQLFDQIPELQDISIPDYCSLGDGEE EETINA WFGPQGTISPLHQDPQCNFLVQ VMGRKYIRLYSPQESGALYPHDTHLLHN TSQVDVENPDLEKFPKFAKAPFLSCILSP GEILFIPVKYWHYVRLDLSFSVSASFWS
5272	13323	A	6119	3	306	EIIAFS/DRAED/FRKLGCEVLGVSVDSQF THLAWINTPRKEGGLGPLNIPLLADVTR RLSEDYGV LKTDEGIAYVCPAGWKPGS

						DTIKPNVDDSKKEYFSKHN
5273	13324	A	612	251	488	GGWITRSGDRDHPG*HGE/IPVY*KKLAG RGGGRLSQQLGRLRQENGMMNSGGRAC SEPRSHHCTPAWVTERLLLKKKKK
5274	13325	A	6120	1	774	PTRTKGFAQGSLGAENAGPRVVIVRAS RGLPTQLSVMASGNARIGKPAPDFKATA VVD\GAFKEVKLSYKGYVVLFFYPLE LHFCGAPTEIIAFSNPCRGTSRKLG* SAGASRWDS\HFTHL\A\W\INTPRKRGEALGP L\NIPPALLNGEPERLV*GIYGR* KTD*GAFAYKGASLFIRLGKGC PFAKITLLIDL\APVGTLP LDEGFCGLVQGLSQVHKTS HGGKFVPA\GWKALPVATD* APTWMTARKYFSKHN
5275	13326	A	6121	3	306	KNWPPPRFF/YKGPPSSSSSSSSSSSSSS PLTPFFPSSSPGVCPKLGSSSSSPPKKP\G RPPSSSQGGKPPFFKPPNFFPKNSPTPG GAPLKPFWKNF
5276	13327	A	6122	1	200	PPHNVPRRWSANLYLTP\SNMVLLTAIAL IGVCVFILAIIGILHWQEKKADDRERQ AHRFHFDAM
5277	13328	A	6123	2	297	
5278	13329	A	6124	1	211	VSPHVLIRQSSRHLGSLYLQAPFV*MA GCLLETGSHV*TYKDLHVITITRHLPKLW KTRSTLNFQVARSS
5279	13330	A	6125	1386	2151	DYLCEKHQYRQLCGYLQPCQGSFCVWT PRAGSGRAALRTGMAVLARAAGQRLRA RLPPQAQRARAAAGALRERGLCAPPRPP APGAGRQSPQQSGELRVPTTSTCRSC WSARPWGSRRGRAVPQRRRNATATGSP RPLRRLRPAASPRRGAASERNWDP PPRPARTARSRALNLRSSSKVNATLVPCHKET EAQRGVWTGETIPVRTCFGLIGQQSHS MEVAEWTDKAVNHIWKAPRNTALKMT QTYNDPAD
5280	13331	A	6126	1	1337	MRNKAVGQARAPPAQLAGWAAPFPKLL DGRPQVFPEMPQPVAGCTATGPREKL GPGRPGRVAASVQRLMNEMNLSPVGM EQLTSSSVSNALPVSGSHLGLAASPT HSAIPAPGILSYLADRPPQYIHPNSIN VDGNTALSITNNPSALDPYQSNNGN VGLEPGIVSIDSRSVNTHGAQSLHPSD GHEVALDTAITMENVSRVTSPISTDGM AEELTMDGVAGEHSQIPNGSR SHEPLSVDSVSNNLAADAVGHGGV IPMHGNGL\ELPVVME TDHIASRVNGMSDSALS\DSIHTV AMSTNSGPRESSAVAPVASHF SVHVFLFSFIWVSPADAE TLGESLLGLTVYGSNDQDPYVTLK DTEQYEREDFLIKPSDNLIVCGRAE QDQCNEVHGNYIAVGNMTPVIEV WDLDIVDSLEPVFTLGSKLSKKKKKK GKKVKKLLINI

5281	13332	A	6127	1	2412	MKMNLSPVGMAQLTSSSVSNALPVSGS HLGLAASPTHSAIPAPGLPVAIPNLGFSLS SLPSALSMLPMGIGDRGVMCGLPERNY TLPPPPYPHLESSYFRTILPGILSYLADRP PQYIHPNSINVDGNTALSITNNPSALDPY QSNNGNVGLEPGIVSIDSRSVNTHTGAQSL HPSDGHEVALDTAITMENVSRVTSPISTD GMAEELTMDGVAGEHSQIPNGRSHEPL SVDSVSNNLAADAVGHGGVPMHGNGL ELPVVIMETDHIASRVNGMSDSALSDSIH TVAMSTNSVSVALSTSHNLASLESVSLH EVGLSLEPVAVSSITQEVAMGTGHVDVS SDSLSFVSPSLQMEDSNSNKENMATLFTI WCTLCDRAYPSDCPEHGPVTFVPDTPIES RARLSLPKQLVLRQSVGAEVGVWTGET IPVRTCFGPLIGQQSHSMEVAEWTDKAV NHIWKIYHNGVLEFCIITTDENECNWM FVRKARNREEQNLVAYPHDGKIFFCTSQ DIPPENELFFYYSRDYAQQIGVPEHPDVH LCNCGKECNSYTEFKAHLTSHIHNHLP QGHSGSIGPSHSEKRWKCSMCPQAFISP SKLHVYFMGHMGMKPHKCDFCSKAFSD PSNLRTHLKIHTGQKNYR\CTLCDKSFTQ KAHLGV\HMVIHTGE\KNL\CDY\CV LFYGGSRDLQGRHVLIHTQER\QIKCPK CDKLAFLRTNHLKKHLNSHEGKR\DYVC EKCTKAYLTKYHLTRHLK\CKGPTSSF VQAPEEEEEDDSEEDLADSVGTEDCRI N\SAVYSADESLSAHK
5282	13333	A	6128	1	1767	MQALIPLESQSGMTQTSGVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWISEK PKKRGNEGKSKKFKNNYSTQPARMERK EEILNPPFEGKDGDTGSIPHSKEIGFTFP KMHDSSFSHTPTPTVEAVDRKGGNFQ VNFVELGTLGENKISTVKASTVTEPPAK VTDVSCQEQIQGAGFVPSVVSEENKTD ANRYTAVADKPSERSNDGKSSGSAACE KLPTPTQVVKEGDSFPDTLAKNGQEIAP AQISKSLMVDNYTKDGVPGQERPKGPSA VVPSTSTGGVALPITTAIETVNIHGDHSL KNKAELADSMKNEAGIDEGHVIGESV HSGASKHSVEKVTELAKGHLLPG/CASR RPEPTRRGQSPRR/T/HADRGNFPAPV EEKETKEGSVAVQIPDLLEDKAQKLSFC EDQNAQDRNSKGSDSLNNKVDLTLLSP KSENDKLKEISLACKITELESVSLPTPEIQ SDFLHSKVEAPPSEVADTLVIMTASKGV RLPEPKDKILETPQKMTEKSEKTPGEGK KEDKSRMAEPMKGYMRPTKSRGLTPLL PKSTIQEQERHKQLKSAGMNLPGWNV ACGF
5283	13334	A	6129	893	3822	GKGNHATVNLLSFLQRPQVGSVLHPPVV G/HGNQRKSIHVDSLEPQRDLGREAWDI ESTPIMMKKKKKKPKQKRYSQPRAGGP SDDDNADKPKGHPFAADTQKSGVLP PTTMGTEYGLVSGENLKRECLVNSSAAR LVAENFVSESLRIPLYPSEEAPKTAISSQS KLRVEEESKSNKSVLQNDKKLLKQHE YKPQPAPHLKTPVDKSQSVGPLNLKGPL AEVSAYNVETPLDIRLKEGCSFFLDQEV MGVV
5284	13335	A	613	5987	6461	GVNKSWNHWFHLGVREAEHAGVVRT PHDDLVLPRGMAACALGACSLGAV PGHPVAGGVSHGCSSSGTTYRGERHRV GRMRQKNRLNPGGGGCGEPRSRHYTPA WATWQNSVSKQNKTKQNKKHRLVHWN RKKWIYLLFALKKYKMSMLCRKS

5285	13336	A	6130	1	1965	MQALIPLES GSGMTQTSGVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWISEK PKKRGNEGKSKKFKNNYSTQPARMERK EILNPPFEGKDGDGTGSIPIHKSKEIGFTFP KMHDSFSHTPDPTVEAVDRKGGNFQ VNFVELGTLGENKISTVKASTVTEPPAK VTDVSCQEQIQGAGFVPSVVSEENKIDA ANRYTAVADKPSKRSNDGKSKVKNSS PEKHILENKIDATKIHVPMETTGDQGIEG WPIWTKIEIL/RFTCPRTPELINKSSPLEV LESAACEKLPTPTQVVKEGDSFPDTLA KNGQEIAPAQISKSLMVDNYTKDGVPGQ ERPKGPSAVVPSTSTGGVALPITTAIETV NIHGDHSLKNKAELADSMKNEAGIDEG HVIGESVSVHSGASKHSVEKVTELAKGH LLPG/CASRRPEPTRRGQSPRR/T/HADRG NFAHPVNEEKETKEGSAVAVQIPDLLED KAQKLSFCEDQNAQDRNSKGSDSLNNK VDLTLLSPKSENDKLKEISLACKITELESV SLPTPEIQSDFLHSKVEAPPSEVADTLVI MTASKGVRLPEPKDKILETPQKMTEKSE SKTPGEGKKEDKSRMAEPMKGYMRPTK SRGLTPLLPKSTIQEQERHKQLKSAGMN LPWGNVCACGF
5286	13337	A	6131	1632	2783	VILLSKSLIQENFFFF*QSFALVAQAGV QWSNPCSLQPPPPGFNGFSCLILPSSWD YRRVPPCPAINFVFLVETGFHHVGQAGL ELLTSGDPPTSASQSAGITGVSHHAQPAE DIANNVTLFFPLHLFL
5287	13338	A	6132	240	564	NGWEFKHGSPWPGGFFFFFETESRSV A/TRLECSGVIPAHRLNCLPGSSDSPASAS QLTGTTGAHHHARLIFVFLVETGLRHLS QAGLELL/NLIHQPNPQELGLQA
5288	13339	A	6133	1	1898	MAASGRGLCKAVAASPPPAWRDNTA RGGLKPEYDAVVIGAGHNLVAAAAYLQ RLGVNTAVFERRHVIGGAATEIHPGFK FSRASLYLLSLLRPQIYTDLELKKHGLRLH LRNPYSFTPMLEEGAGSKVPRCLLLGTD MAENQKQIAQFSQKDAQVFPKYEEFMH RLALAIIDPLLDAAFPVDMAAFQHGSLLR MRSLSLTKPLLKAGRILGAQLPRYYEVL TAPITKVLDOQWFESEPLKATLATDAVIG AMTSPHTPGSGYVLLHHVMGGLEGMQ GAWGYVQGGMGALSDAIASSATTHGAS IFTEKTVAKVQVNSEGCVQGVVLEDGTE VRSKMVLNNTSPQITFLKLTPQEWLPEEF LERISQLDTRSPVTKINVAVDRLPSFLAA PNAPRGQPLPHHQCSIHLNCEDTLLHQ AFEDAMDGLPSHSDLGSAKIHTPKDRKC IPGEKSEDEGRPVIELCIPSSLDPTLAPPG CHVVSFLTQYMPYTLAGGKAWEQERD AYADRVFDCIEVYAPGFKDSVVGRIILT PPDLERIFGLPGGNIFHCAMSLDQLYFAR PVPLHSGYAGPLQGLYLCGSAHPAPY SEILTSLTRVPQIHPVHPQLRLWAVDLA PPQTFGAGSLEGARIY
5289	13340	A	6134	163	513	CLLFFLTPSHFSVFGTPVFDNRVYAPGF KDSVVGRIILTPDLERIFGLPGGNIFHC AMSLDQLYFARPVPLHSGYRCPLQGLYL CGSAHPGGGVMRAAGRNAAHVAFRD LKSM

5290	13341	B	6135	1	720	MGCKHWMTCGRARKEGKDDSYMOTQ WLHRAFAAPPETCPFPLRDHIQTGRDLYI LGTFEKCVFWGGAEREVWRERHQREPG LRAAFAGQLEFPAGVGLAGPALGAAGQ PCWPRGNEGLSTRASGCGGCTGSSSSAS PPVLCSSHQALAAFLRGRSRDLQRAMP EPPTPSMGSCAAGASPTSTTPCSKEPSID HPRAEECECTARDWQAAPPAALVRDPL GEASWAPESGGDMESLYI*
5291	13342	A	6136	133	311	QLHADKVS RFATHA/GVPWCDHGLFQP QPPPLKRSSCLSLWSSWDYRHAPHPAII CLLL
5292	13343	A	6137	1	1098	
5293	13344	A	6138	2	241	PPRFKRFSCLGLSSWDYRCTPPRSANFC NLVEMGFHHVGGAGLELLTSDDPPTLAS QSAGITGVSHHAGPHRFLINIY
5294	13345	A	6139	3	333	YFISSHFISFHYVISFHLITFHLISFH/HHFI SSFHFISSFHLFISFH/HHHLINSFHLISSFH HFISFHLISYLSISFQ/HFHYFMSSHLISSF HLITSHHFINFIISSFH
5295	13346	A	614	180	345	GLSFHMLKKKVYKYMCIYMYICTHTHT HLI*MYINRPSLYDYQFLFYLSQLDSC
5296	13347	A	6140	3	137	GVSPCWPGWSRAPDLK*SAHLGLPKCW HYRRPIHDCGQAPHLHC
5297	13348	A	6141	967	1386	KKKKIFIGHQLRWL*REFFFFFETGSHS VPQAGVQWCDHGSLQPQSPWAQRSSNL SLPSSWDYRHLPPCLANF/IFFVEMGLT MWPRVLNS/GPSDLPASVSQ/SAGITGV SHRNWWPMKIFFFQTASHSVAQAGVQ WCNLGSLQALPPAFMPFSCLLPQPPSSW DYRSLPPCLANF/CFGFLVETGVSPCWPG WSRTPDLR
5298	13349	A	6142	278	643	GRQERGERERSSRPLGGRKCQ/HWLAVN AQKLLALQVEKAKVEVGVPALGILV VAGCSFAIRRYQKSDSLKQPQNPVLEA AVGVPEMSLPHASSSLTLVPCLRSLD PFLCFPLSLAKV
5299	13350	A	6143	18	479	QRTFCKGKWGAAKILIDLNNFLCKLE QKGTDLALVIAMENYGSLSGSKKGVDLP AVDLLAMSEKDIQDLKFGVEWDVDMVF ASFIHVASNVEIRKAIANWSKVPTCPP ELGSYLPRGTETHSYFYISYSSDQIQICKP LHYSYGRNYDTL
5300	13351	A	6144	3	282	RSPPA/GSPPPSAPAPRLPPPPAPPPALPFP ASRPTFPPLPVSLPVLPSRSLPPLPAFLF SFFCIGVLGLLHTRALSIAAYIKAGAIMQ LYC

5301	13352	B	6145	26	2671	MAAPGAPAEYGYIRTVLGQQILGQLDSS SLALPSEAKLKLAGSSGRGGQTVKSLRI QEQQVQTLARKGRSSVGNLHRTSSV PEYVYNLHLVENDFVGGRSPVPKTYDM LKAGTTATYEGRWGRGTAQYSSQKSVE ERSLRHPLRRLEISPDSSPERAHYTHSDY QYSQRSQAGHTLHHQESRRAALLVPPRY ARSEIVGVSRAGTTSRQRHFDTYHRQYQ HGSVSDTVFDSIPANPALLTYPRPGTSRS MGNLLEKENYLTAGLTVGQVRPLVPLQ PVTQNRASRSSWHQSSFHSTRTLREAGP SVAVDSSGRRAHLTVGQAAAGGSGNLL TERSTFTDSQLGNADMMENTLERAVSML EADHMPSPSRISAAATFIQHECFQKSEARK RVNQLRGILKLLQLLKVNEDVQRAVC GALRNLFEDNDNKLEVAELNGVPRLL QVLKQTRDLETKKQITDHTVNLRSRNG WPGAVAHACNPSTLGGQGGRTSGVR DQPDQHGILLWNLSNDKLNLMITEAL LTLTENIIPFSGWPEGDYKANGLLDFDI FYNVTGCLRNMSSAGADGRKAMRRCD GLIDSLVHYVRGTIADYQPDDKATENCV CILHNLSYQLEAELPEKYSQNIYIQNRNI QTDNNKSIGCFGSRSRKVKEQYQDVMP EEKSNPKGVLEWLWHSIVIRMYLSIAKS VRNYTQEASLGALQNLTAGSGPMPTSV AQTVVQKESGLQHTRKMLHVGDPSPVKK TAISLLRNLSRNLSLQNEIAKETLPDLVSII PDTVPSTDLIETTASACYTLNNIIQNSYQ NARDLLNTGGIQKIMASAGDAYASNKA SKAASVLLYSLWAHTELHHAYKKAQFK KTDFVNSRTAKAYHSLKD*
5302	13353	A	6146	2	355	FYFLRWSFTLIAQAGVQWRDLGSPQPLP PRFKQFSCSLNSWDYRHAPPRANFL CF/LVETRFLHAGQAGLELLTSGDPPTLA SQSAGITGASHRNPVQSILRLEGLLETIV QPPT
5303	13354	A	6147	3	277	FFLETEFRSTQSPRLECSGAISAHCNLQLP GPSHSPASASRAAETTGLCHHARLIFVFL VEMRFHHVGQSGLELRQAICLPRPPKVL GPQA
5304	13355	A	6148	20	363	LHHFPKPCPAHFSACIHWQHPHTCACT QAHMCKPKH/THTHACTH/ICVLSGTHP WVHTGVCARSSSSS/PSSSSSLRYTRQV HALLHTAQPQRLKASEPTPAQLQGRQE GLTG
5305	13356	A	6149	3	301	STATWAGVQWCNLSSLQPLPSGFKPFSC LSLPGSWDHRHLPPCPANFLYCFFLVEM GFHYVGQAGLKLLT/S/GDLCASAPQSAG STGVNHRVRLGLLIYIP
5306	13357	A	615	173	338	GLSFHILKKKVYKYMCIYMYICTHTHTH LI*MYINRPSLYDYQFLFYLSQLDSC
5307	13358	A	6150	15	352	DSIFTLVCAEHINFLRAGQHWGCVIDCL HYNKQAVTGDHSSYSASSTPENGRE GTREQGERRGGTWGRGGG/QERPSIPDR QKNQGRGGGNPLSGRGKVKAITILLII
5308	13359	A	6151	20	415	
5309	13360	A	6152	24	156	SSFKVMELCPVLVGSWSH*LQE*SRGPLR *RTHSSRYMVKRQE
5310	13361	A	6153	128	880	
5311	13362	A	6154	310	719	LRTYPTIRGPVREEK WGYVQTESRSVAW AGVQWHCFTELRCFLVSLTSRMKPRTL AVSVPALKVARLEFVSSDVQRWGFHHV GPAGLELLTSSDLPVSASQMAGITGRH RAWPWEHVYMDFVHFLKQTEGNLLDL
5312	13363	A	6155	1	169	FFETGSCSVAQAGMQCSDHGSLOPCPPG SWDPPALASQSAGITSMSSHNPFLFI

5313	13364	A	6156	525	972	NHLGGFKQILMPRLHPMPMKSFLGV SAR QLYFFFFFETESHIVQAGVQWRDLGS LQPLPPGFKQF\SCLSLPSSWNYRHTLPRP ANFLYFLVETGFHCVAQAGLKLLSSGNL PALASQSARITGMSHHARLAVVFFKALL SSSRTRI
5314	13365	A	6157	300	500	DGLCSKQT*NGVPSITNPIKTANQHOGK KQHPIQGNRTAPSSSVSYMKRCELLPKG TGLEVVRESG
5315	13366	A	6158	1	1889	MGLLQGLLRVRKLLLVCVPLLLLPLPV LHPSSSEASCAYVLIVTAVYVWSEAVPLG AAALVPAFLYPFFGVLSNEVAAEYFKN TLLLVGVICVAAAVEKWNLHKRIALR MVLMAKAPGMMLLCFMCCTTLLSMW LSNTSTTAMVMPIVEAVLQELVSAEDEQ LVAGNSNTEEAEPISLDVKNSQPSLELIF VNEDRSNADLTLLMHNENLNGVPSITNP IKTANQHOGKKQHPSQEKQVLTSPRK QKLNRYRSHHDQMICKCLSLSSISYSATI GGLTTHGTSTSLIFLEHFNQYPAAEVVN FGTWFLFSFISLMLVVSFWMHWF LGCNFKETCSLSKKKKTKREQLSEKRIQ EEYEKLGDISYPEMVTGFFFILMTVLWFT REPGFVPGWDSFFEKKGYRTDATVSVFL GFLFLIPAKKPCFGKKNDGENQEHSLG TEPIITWKDFQKTMPEIVLVGGGYAL ASGSKSSGLSTWIGNQMLSLSSLPPWAV TLLACILVSIVTEFVSNPATITIFLPILCSLS ETMHINPLYTLIPVTCISFAVMLPVGNP PNAIVFSYGHCQIKDMVKAGLGVNVI GL VIVMVAINTWGVSLFHLDTYPAWAR VSNITDQA
5316	13367	A	6159	41	570	SLHDSTADSIRTTCQGVISTLKAHYLRRT FQHILEAADGEDPSYIK\EFWRNYSIMDA VDMAlAWEELKPALMNSMWKKIWPEC VQAQRFSQADNIAQLQKNIVTLARNVAF EEVAEAAVDQLIQSHEEDLSNEELMRLE QELAVGEEEREDGPWALWQLTTGRLSA ALSHFEAGL
5317	13368	A	616	363	412	
5318	13369	A	6160	3	367	HASAHAFGQLSCVSKLMRDVCGQPCFSP RGMV/LYLQWGRKYSRIGNSSWQIKEK VWRFSTAFCSVNEWKFADILSMADHLK KCSYNVVEKREEAIPLCMCVTRELTKE GRSLRSVLKPVL
5319	13370	A	6161	74	295	AEDKSQMLLDLRWSYIRTSSSSADRSHA SGPRIAHKWSVTDRNRPRYDSNNELAEK EQLS*ICSICSRVFFKA
5320	13371	A	6162	32	342	
5321	13372	A	6163	184	556	
5322	13373	A	6164	251	1133	PND SKRLILFRTKPWQCLSVRTVARRCT ALTFIASEEKVLVADKSGDVYSFVLEPH GCGRLELGHLCMLLDVAVSPDDRFLTA ARDEKMRVSWAAAPHSIESFC LGHTEF VSRISVVPHSARA\LLSSSGDGLRLWEY RSGRQPALLSPWPVCRSSVDPQAPQKFA ASRIAFWCQENCVALLCDGTPCGLHLP GRPQTAVGVQAAAGVPAPSVGRGFRGD PGAVGAPGLARKPPWCSYRHVGDQWQ SVPESTVLKKVSGVLRGNWPMLERLCR RRRQLSAVSYKAHVPTT
5323	13374	A	6165	1	391	APMAGCLSFYLIQQGDDKGFSLYTRDG AGLYKEIWKADRPGNAAWNLAEGEFNA PYPMEVIFEDAFNGPKGGYVALDDISFSP VHCQNQTELLFSAVEASCNQEQLCNFY QDKKRPGWTRVKGKPNML

5324	13375	A	6166	3	1459	KLPPPPGECTFEQDECTFT/AGEKKPEQL AQEEG\ETPTSYPGPKGDHTTGVVVSSHL ASECPFGLNSDALLPKKICSLVLLLTSL AASADSGTMLLRWGCLSKIKMSVGLV PSEISLLGLQMAAFLHMAFPLCQCTPD MYLLLTVGNRNHGRQKQIKGALLYWTF TTCRHCARNLNILSTTCKDKVGEFAKLS KIELLEATEKSIGPPEMHKYHCELKNLRE KEKQLEDLLATKIASKVAKLGILLGMPT LEIGGKEGGGWTGYWLRAEKEDGDYL CIEGSEGLNTEKIVPVMQERN SININKKD VHSETPAKGHQLQRPKVDKSMKMGRN QHKKAENSKTQITSSPPKDPKSSPAREQT CMENEFDKLTEVGFRRWAITNSPELKED VLTQCKEAKNLEKRLDKLLTRITSLEKS MNDLMELKNTGRELCEAYTSINSRIDQV EERISEIEDQLNEIKQDDKIREKRVKRNK QSPKKYGT
5325	13376	A	6167	1	393	
5326	13377	A	6168	1	1137	
5327	13378	A	6169	1	1793	MAETAVINHKKRKNSPRIVQSNDLTEAA YSLSRDQKRMLYLFVDQIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPEEDAGDEKGYESFP WFIKRCATAVGRQRTHADKERGAREKG GEKKAKAKKTSGRTRKGGGRERKKKGE QEGKDGQRNAQTKGEKRQPHKANTPPK TLQORKEKKTGDSHRRKKKLFKESEKVL SQWEHDFVIETMATGARPQLLSAVEA SCNFEQDL CNFYQDKEGPGWTRVKVKP NMYRAGD\HTTGLGYLLANTKFTSQPG YIGRLYGPSLPGNLQYCLRFHYAIYGLK MSDTLAVYIFEENHVQEKIWSVLESPR GVWMQAEITFKKPMPTKVVFMSLCKSF WDCGLVALDDITIQLGSCSSSEKLPPPPG ECTFEQDECTFT/AGEKKPEQLAQEEG\E TPTSYPGPKGDHTTGVGYMYIEASHM VYGQKARLLSRPLRGVSGKHCLTFFYH MYGGGTGLLSVYLKKEEDSEESLLWRR RGEQSISWLRALIEYSCERQHQIIFAIRG VSIRSDIAIDVVKFQARP\CGEMEDTPQQ SSGYSEDLNEIEY
5328	13379	A	617	540	820	KIGPQPQGHSKTSL*TIKKKLARCGGTC LWSQLLGRRLWEDCLSAGS*GCGEL*SY HCTPAWVTERDLVSKTQKNRAITGKLLL DVLSLLIR
5329	13380	A	6170	2	392	RNKKQGYPAFHVFTFFYPK*KSGGYQA VKRWTKGVNLFEQEILVPIHRKVHWSL V\QYLQDESKTKRNSDLNLEWTHHSM KPHEIPQQLNGSDCGMFTCKYADYISRD KPI\TFTQVSEDPLHPFTCY
5330	13381	A	6171	2	386	MNLLVERNKKQGYPALHVFSTFFYPKL KSGGYQAVKR\WTKGVNLFEQEILVPIH RKVHWSLVVIDLRKKCLKYLDMSGQKG HRICEM\VLGYLQDESKTKRNSDLNLE WTHHSMKPHEIPQQLNGE
5331	13382	A	6172	3	162	
5332	13383	A	6173	3	407	TRRADPLRTWRWHNLLVSFAHSIVSGIW ALLCVWQTPDMLVEIETAWSLSGYLLV CFSAGYFIHDTVIVASGQSASLL\EYLV HHVMAMGAFFSGIFWSSFVGGGVLTLL VEVSNIFLTIRMMMKISNAQDHL
5333	13384	A	6174	13	367	KYLFFFLKDHTKVGKRRMSIRLHQNLR GRTKSCLKKLVAGANCRDQDDPSRNQ QPRSATFRPSPNRCH*IPQ*PYSAQCPHPG SGGQFRSLRGLIVEYRSSERHISYRRYAG LCEY

5334	13385	A	6175	3	413	AAIEELCGRQAARAEAVRGLRGPRGLR/ WPLPWHPPAPPAHGAPLARPGARARRSE KPPSEKPRRLRRSSPRAQEEGPGEPPEL ALLPPPPPPPTPATPTSSASNLDLGEQRE RWETFQKRQKLTSGCRQAPARHL
5335	13386	A	6176	2	445	RPLPWHPPAPPAHGAPLARPGARARR/CE KPPSEKPRRLRRSSPRAQEEGPGEPPEL ALLPPPPPPPTPATPTSSASNLDLGEQRE RWETFQKRQKLTSEGAALKLLDTFEYQ GLVKHTGGCHCGAVRFEVWASADLHIF DCKYRNYI
5336	13387	A	6177	2	265	FLMESRSVTRLECSSTITAHCNLCPLVSS DSAVSASQVAGTTGMRHHAQLFVFLVE TGFHHVGQDGLHLL/NIVHLPKPKVLG LQA
5337	13388	A	6178	1	394	WLVGFGGFFEIESRPVAQAGVQWRNL GSLQSPSKFKRFSFLNLPSSLDYRHTPPS LANFLYLQMGFHHVGQDGLELLTSDP PTLASQSAEITGVSHRTQPSAILLQSQSS LLPLLRTFISSVPVTE
5338	13389	A	6179	3	1306	HEISLGAICAVLLVIMGLFATRCNREKKD TRSYNCRVAESTYQHHPKRPQRQIHKGD ITLVPTINGTLPIRSHHRSSPSSPTLERGQ MGSRQSHNSHQSLNSLVTISSNHVPENFS LELTHATPAVEQVSQLLSMLHQGQYQPR PSFRGNKYSRSYRYALQDMDKFSKDS GRGDSEAGDSYDLGRDSPIDRLGEGF SDLFLTGRIPAMRLCTEECRVLGHSD QCWMPPLPSPSSDYRSNMFIPGEEFPTQP QQQHPHQSLDDAQPADSGEKKKSFTF GKDSPKMRTLGDSTSSLLSEMSSVFQR LLPPLSDTYSECSEVDRNSLERRKGPLP AKTVGYPPQGVAAWAASTHFQNPPTNCG PPLGTHSSVQPSKWLPAEIEIPENYEED DFDNVLNHLNDGKHELMASELVAEIN KLLQDVRS
5339	13390	A	618	45	364	HHLHFLQRHKSQMRTMNTGLFEILTMLL TMMNLVDIFHEKADVVDMAYNADFDEY LNCTDRMDIKYVVQLKEEQASHHH*D TECENA*ARWAARMTHIFLPMODYN
5340	13391	A	6180	21	375	GVSTVGIGRGSRLLEWAPPEKYTPGRPS HPLWLWEGGGGSRREIDTSSPHQVPV QSWFDDMGNTLLNLIPIFEELNGAKDV YTSL/GAAAGPLDCPAFKRRPFHYGTFFH CAFTI
5341	13392	A	6181	3	471	HASAHASAHQVYVLKRPYVDEFLRGMG ELFECVLFTASLAKYADPVTDLDRGV FRARLFRESCVFHQGCYVKDLSRLGRDL RKTLILDNSPASYIFHPENAEPVQSWFDD MAYTELLNLIPIFEELSGA*DVTSL/GAA AGPLACPASKRRPSQ
5342	13393	A	6182	1	1953	
5343	13394	A	6183	3	240	
5344	13395	A	6184	1	462	
5345	13396	B	6185	1	546	MVKPLSLQMVPLHSSLGNRGSLSSENKNT GVWESAASCCMAGCGPADGICSEPLG HDQDGRAQSLLLWAKLTRKDRFSSQPR SIPSFDFLKAKALAKQRETIWEKVFSFQ AGVLSPPGSATLLSTLEQGAVGQKPPSV PCLMGLFVEHLTTWQLTSSVQASKSKRE DSPETVIAKQKAQSF*

5346	13397	A	6186	1	1846	MWSVPCLEKVDVLAWTVLCLAVKIKM NKLRSQFRRKKDVYVPEASRPHQWQTD EEGVRTGKCSFPVKNWQRLFIQSLLAMR SLSASCCHQPAVYSSHGTQAVHAKGCL QAHHRACCPSCTSPAAAAIFAAATPDG PLLPSRPLVNIEKSQALVRETLTSQASA PNSGRAGQPVTVCLS/GANAAWRPALEA PVDTLGWPETQAVSQCLG*EHSACLER KQKREKECGVTATFDASRTTFTREGSFR VTTATEQAEREEMKQMQDAKKA\QTSV N*TAFPRGRTSTTSTGRLWLMGRPASLA RGMSVWMAAAGLSAVITSWTRPSRRTS VCGVGVTARPATPSQAPLTLMTSAEL*R MFVGNNTSMGTGPSRRPGCQQPAPSCI TSGVLRGT/SAPER/PPCPGPTSEPLVI/VA PASAGATAHGVTAAARSVAEVTSPAUCS APSTMRTPTTCASASHGQLTGVPAlFTL ARRPSAGLLGWWRWLWCMGPQGCS/SP LGPCTRLQSVPRMAGRQGHGHPAQPP VEEAPSPAPCTASRLTGPASRRPWRLS VPGCLGSPLPFRPVTCSAVQPGARSPGES VLSVVALASGSGALLAGVKGVLC SIPQR APWKTGHL
5347	13398	A	6187	1	1542	
5348	13399	C	6188	539	1039	MPYPAPNPVVGITPSQMVANXFGTAG HPQAAHPHQSPSLVRQQTFFHYEASSAT TSPFFKPPAQHLNGSAAFNGVDDGRLAS ADRHTEVPTGTCPVDPFEAQWAALENK SKQRTNPSPTNAFLHVTYRRRLKLNFKQ SLWLCILSIPDREQGVAVKGAKQTLCPD*
5349	13400	A	6189	303	2235	VKIKMNKLRSQFRRKKDVYVPEASRPH QWQTDDEEGVRTGKCSFPVKYLGHVEVD ESRGMHICEDAVKRLKATGKKAVKAVL WVSADGLRVVDEKTKDLIVDQIEKVSF CAPDRNFDRAFSYICRDGTTTRWICHCF MAVKDTGERLSHAVGCAFAACLERKQK REKECGVTATFDASRTTFTREGSFRVTT ATEQAEREEMKQMQDAKKAETDKIVV GSSVAPGNTAPSPSSPTSPTS DATT SLEM NNPHAIPRRHAPIELARQGSFRGFPALS QKMSPFKRQLSLRINELPSTMQRKTD FPI KNAVPEVEGEAESISLCSQITNAFSTPED PFSSAPMTKPVTVVAPQSPTFQANGTDS AFHVLAKPAHTALAPVAMPVRETNPWA HAPDAANKEIAATCSGTEWGQSSGAASP GLFQAGHRRTPSEADRWLEEVSKSVRA QQPQASAAPLQPVLPPTAISQPASPF QGNALTSQVPVGVVPALQPAFVPAQS YPV\ANGMPYPAPNPVVGITPSQMVAN VFGTAGHPQAAHPHQSPSLVRQQTFFHY EASSATTSPFFKPPAQHLNGSAAFNGVD DGRLASADRHTEVPTGTCPVDPFEAQW AALENKSKQRTNPSPTNPFSSDLQKTFEI EL
5350	13401	A	619	112	322	NSLIAGYILVYVKTPRTQKEKSFLKVLST YIKVAKYKV*ILKSITFLFTTKEYSKINIK MPFTTPFTPN

5351	13402	A	6190	795	2728	GLSNFFRGRVPVQPLLQFKILIYIHRLEY WWASNPQTPHLGQAVKIKMKNLRQSFR RKKD VYVPEASRPHQWQTDEECARTGK CSFPANDLGHAFFESRGMHICEDAVKR LKATGKKAVKAVLWVSADGLRVVDEK TKDLIVDQTIEKVSFCAPDRNFDR\AFSY\ ICRDGTTASHGFCR\CFMAVK\DTQGERV EHMQ*ICAFAALFRRARQKREKECGVT ATFDASRTTFTREGSFRVTTATEQAEREE IMKQMQDAKKAETDKIVVGSSVAPGNT APSPSSPTSPTS DATTSLEMNNPHAI HAPIEQLARQGSFRGFPALSQKMSPFKR QLSLRINELPSTMQRKTDFFPIKNAVPEVE GEAESISSLCSQITNAFSTPEDPFSSAPMT KPVTVVAPQSPFTFQTEWGQSSGAASPG LFQAGHRRTPSEADRWLEEVSKSVRAQ QPQASAAPLQPVLPPTAISQPASPFQ GNAFLTSQPVVGVVPALQPAFVPAQSY PVANGMPYPAPNVPVVGITPSQMVANV FGTAGHPQAAHPHQSPSLVRQQTFFHYE ASSATTSPFFKPPAQHLNGSAAFNGVDD GRLASADRHTEVPTGTCVPDPFEAQWA ALENKSQRTNPSPTNPFSSDLQKTFEIE L
5352	13403	A	6191	1	1825	MNKL RQSFRRKDVYVPEASRPHQWQT DEESVRTGKCSFPVKYLGHVEVDES RGHICEDAVKRLKAQRKFFKGFFGKTGK KAVKAVLWVSADGLRVVDEKTKDLIVD QTIEKVSFCAPDRNFDR\AFSYICRDGTR RWICHCFMAVKDTGERLSHVGCAFAA CLERKQKREKECGVTATFDASRTTFTRE RSFRVTTATEQAEREEIMKQMQDAKKA ETDKIVVGSSVAPGNTAPSPSSPTSPTS DATTSLEMNNPHAI RRHAPIEQLARQGSFRGFPALSQKMSPFKR QLSLRINELP/SPTMQRKTDFFPIKNAVPEVE GEAESISSLCSQITNALSPAPEDPFSSAPMT KPVT\VLAPQSPFTFQNE\WGHS G\AASPGLFQAGHRRTPSEADRWLEEVSKSVRAQ QPQAPAAPLQPVLPPTAISQPASPIQNAFLTSQPV PVGVVPAHMQPAFVPAQSYYPVANGMP YPAPNVPVVGITPSQMVANVFGTAGHPQ AAHPHQSPSLVRQQTFFHYEASSATTSPF FKPPAQHLNGSAAFNGVDDGRLASADRHTEVPTGTCVPDPFEAQWA ALENKSQRTNPSPTNPFSSDLQKTFEIEL
5353	13404	A	6192	164	282	
5354	13405	A	6193	193	274	
5355	13406	A	6194	3	247	FFFFFNRGFIAALFKITKIWKQPRCPSVSE WDKLWY\Y\TIEHNSALKRNLSCPQKM RKLKSILLSKRRQSEKATYYITATM
5356	13407	A	6196	57	361	GLTMDTQKDVPQPK\QQPMIYICGECH/ TPENEIKSR\DP\RCRECGYRIMYK KRTKRLGRFLMARWNAGEFQREWPSYTLGF GSLPHFWIVCYSFIFALQ
5357	13408	A	6197	2432	3682	NSLILLFFFFRQSLTLECSGVISAHHNL HLPSSSNS/P/ASAS*VAGITGMHRHAWPI CIFLVETGFRHVGQAGLELLTSGDPPAPT SQSM*ATTSGLILLSSKILFPFHSTKVFK* SCPS*KILKEENCVINEWFNNESSYTSKE KNNLVPNAC*EINTM*VATNCDFT/SL L*RSENYPKLFHNNETTSQKIHLKIKISRPATS GQWILFSLVWWRARKG*GILMIHNGILY *TIC*IKLHRLP*GMDYPNQPD/MKSGWD KRMSHTL*F*GKEIVDFQNNQKLSTL YLSVQE**HEEFFFRDLKYNKPGSTIKSL VSF/HSLTLFFFFFFEARSHSASQAGVQW GNIGSLQPAPPGLKRSSYLSLLSSWDYRR VPPHPANFCIFCR/GWGFVSPCCPGSSG

						TPVLKWRAHLSLPNC
5358	13409	A	6198	1	632	KYRQDLTVPPGYCTGEQGAGGRPGETEP WLRPPALLPSDFLLCASSSGAVLPVRTQ DPFLPYPPRACPGQAASSATTSRPCPEV KEAGWGSPGHLARHALSHVPPPARVVL VLRERWHFCGDGRVLLGSRALRERHLG LMGYQLL/PGEWPWPGPWRILTPSLRVT CRPLSPQLPFEELESQRG/LCPQLKSYLR QKLQALGLRWGPEGG
5359	13410	A	6199	2	313	EVRVYDLTQYEHCPDDVLVLGTDGLWD VTTDCEVAATVDRVLSAYEPNDHSRYT ALAQALVLGARGTPRDRGWRLPNKNL GSGDDISVFVNPPGRARQLLLRG
5360	13411	A	62	994	1108	
5361	13412	B	620	180	372	MAKDAGLIEANGELKVFDQNLSPGKGV VSLVAVHPSTVNPLGKQLLPKTFGQSNV NIAQQVVIX*
5362	13413	A	6200	401	531	
5363	13414	A	6201	1	864	
5364	13415	A	6202	9	811	YIVTTLRQLGTRGTPGRFIYTALNEPTID YGFQRLQKVIPRHPGDPERLPKEVILKRA ADLVEALYGMPHNNQEIILKRAADIAEA LYSVPRNHNQLPALANTS VHAGMMGV NSFSGQLAVNVSEASQATDQGFTRNSSS VSPHGYVPSTTPQQTNYNSVTTSMNGY GSAAMSNLGGSPITFLNGSAANSPIAIVP SSPTMASSTSLPSNCSSSSGIFSFSPANMV SAVKQKSAFAPVVRPQTSPPTCTSTNG NSLQAISGMIVPPM
5365	13416	A	6203	299	826	LEGHCHNLSSLQISASLGFKRFS/CLTSPS SWDSRNTPPCPANFC/EFLVENGFHHVG QAGLKLLTSSHPPSMASQSAGITGMSHQ AWPTFPVLINFNSLKMCRMCMPATHLG QCPSREYKIHSCSCELEGQAHEPDVG VTISIRKCPVPNALWWKELVPGAQGHGP HLEPEGLG
5366	13417	A	6204	1161	2627	RSDATNWGLSHLCFWFWFLRLSFLFS LPRLECNVTISAHCNLFCLLGSSNSPVSA SLVAGITGRHHAQL/LLYFFFLVKTRF HHVDQADLELLTSGDPPTSASQSAGITG VSHCAR/LSHLCFLPPCLLFY/CYFIYVML LCY*WSLFLVAQGVQVWHDLSLQPLPP GFK*FSCLSLSSWEYRRSPHPANFFFFF FLRR/RSRFVAQGVQVWCNLDLQPPPPS FKHFSASACRVAGITVACHHAWLIF/IFL YF**RQGFTILARLVLS*PRDPPPSASQS AEITGVSHHAWPILFIYLRQSL/DSVAQA GVQWYNLGSLOPPPGFKQFSCLSLSS WDYRRVPPCPANFLCF**RQDFTMLARL VSIS*PHDLPASASQSAEITGVSHRAWPIF CIFI/CFFEMESRSVAQAGVQWRDLGSL QAPPPGFTPFSCSLSPSSWDYRCPPRPA NF/CIFSRDGVSPWSLSPDLVICLPRPPKV LGLQA

5367	13418	A	6205	24	617	DPVSTKNTQISHMWWCTPVVPATQEAE AREFLENFLSPSTGFECSSLFFFFFFFSLQ GSHSVTQAGVQWCDHGSLQPQPPGRKP SSPLCLLSSWDNH/RPANFFYKTTVKSPE E/FLQLAVVGCFA CARVYSAFQTEKPQH SSSVGLHRSSFEISAFSHFPI*VFVPWPSP LQYEEPTLSFPPSSSIPHCPTSPND
5368	13419	A	6206	239	1789	ATAPGQIFFFFFFLWWSLTSPRLECSDAI MAHCNLKLLGSRNPPTSAS*VAKDYST HQQAWLISYFFFIETGFRHVAKAGLKLL TSSDPPAPASQSAGIKRVRHHVWPSFSY VNKHLFSRGLRALSYKLG*QMLFFNFL SILSHDFVAVPSCHDAHLRSPETCH**CSV THLEGLQVHF*L*DVIPVLJQGVSLNSSSS SFLEESQ*DNILSREWGSHSNLSY*SKVI M*HLTATSSCDTELASASV*VLS*PL*LR LSR*SF*TFLWLLFRDRIIIFCLFLKRWS L/DSVTQAGVQW/RNHGSLQPQTPGLGS DTESFFF*ARVSLCHPGLEVQWCNHGSL QASNS*AQVILPP*LPN*LRLQACTIMPG* FCF*ILVEMGLAMMPSLVNS*AQ/CNH PVLASQSSGITGMRHCARLGRES*FDPLH *TVCPICNFFFLRRSFALVAQAGVQWR DLSSLQPLPLGFR*FSCLSLLSSWDYGH SLRSANF/CVFLVEMGVSPCWTGWS*TP DLR
5369	13420	A	6207	2	208	LEHALRPSSKMLLKCSQGGTPQEPNPRI KRASSLNFLNKSVEDPTQHGGQVFLSA ALSAPAPWTSPH
5370	13421	A	6208	1	419	SAFSVAVTKKLPTGAACPIKFTKILMNE GGHYNASSGKFRICGVLGIIYFHLHITL GNK\DLAIGLGAQRPTASGPLMPNTGN HDVGS GSTILALKQGDEVWLQIFYSEQN GLFYDPYWTDSLFTGLIYADQDDPNEV
5371	13422	A	6209	756	966	
5372	13423	A	621	39	460	GVYLKLSINTVGKDKEKVRHHHPITTQL QCGIQGHNLWVVTAAASEIRSFHLSRSSRF RRFKSIFCHVTRSGKSMQMFTFPEKKN DFSGCPVRPRGRGRGEGAVRSAGRRG*A RAGAGPGGPGRGGVPALGRVAPGLVPN
5373	13424	A	6210	24	365	PTEY/ENL/FPCIKEAF/VVEEWVKETLAV L/WPAKQYPFVTPIEERILMEEGKAFFPSR STAKQKLDGNPVSPTPVIGLSPTPNKEE KQPDWPLEPTGHLDGARDTAGPSWLH HRF
5374	13425	A	6211	32	188	KIFFFFFFLPPQFKILFKRPTGLRVPKGGR RALGGSPKGAKKAWPTRRLPSFNNGYLE GSSNGASTESPGNFVPGKTLQPPGVELG RGRWTAQQQPSRPVALGA*KL
5375	13426	A	6212	122	339	EKGFWFCAQGGKNLPGGNSLEPSASGL KEIFGLNLLNNWE*RGGPKTPGNFWIWK KGGV*PLWPGWG*NPGL
5376	13427	C	6213	56	118	MKALPSSQSCGPTSVNSPFH*
5377	13428	C	6214	345	410	
5378	13429	C	6215	7	438	
5379	13430	A	6216	2	80	
5380	13431	A	6217	3743	4059	GCAVFFFFFFFLRWSLPRLE/CSGTVSA HCNLHLLGSSSRAAASQVAGTGMHH HARLIFVFLVEMGFHHVSNS*PQAIHPPQ RPKVLGIIGRDNRHLGLMEWSF
5381	13432	A	6218	3	402	DTMVHLTPVEKGAVTALWGKVNVDDEV GGEALGRLLVGYPWTQRFESFGDLSTP DAVMGNPKVKAHGKKVLGAFSDGLAH LDNLKGTATLSELHWDKLHVD*NFRL LG\NGLD*MLAHKFGKKISPNQKGLG

5382	13433	C	6219	295	618	MARKCSVAFSGGPGCTWDNLKGTFAHT EVSLHCDKAAPWPEELSGSWGNAVWS CVLGPFTFGKRISTPPVAGLPNQENWLA WCWLNALGPTSNHLSLAFLAGPISN*
5383	13434	A	622	138	320	GFFQGAQKKRVHPKGPPGKSRF*KFFRA GPGSIWNPHHLGGPGGPNCWPPGFQTP PNNPG
5384	13435	A	6220	2	337	IKKAL*HE*LREKKKSPIRTSQSSKAP*NL PRSSSSSESSNNYQLL*AHKLQKVKEMG KLLETPLNPLLSQKVAEPLNQPITSSKIET LIKPPYHPEKSYGHDEVTAKFSRA
5385	13436	A	6221	1	2349	
5386	13437	A	6222	2	1802	
5387	13438	A	6223	5175	5804	IANNKDALRKTWNPKFTLRSHFDGIRAL AFHPIEPVLITASEDHTLKMWNLQKTAP AKK*EYSTLTLEFYFK*HLSILLYSI
5388	13439	A	6224	3	115	HETDYHKQPWQGEISGIVSTESQ*WGLG GGEVKVKE
5389	13440	A	6225	2	28	TIADRELRYSEDEGGRRRGE*REEEGEA ARRKRVAKQVGRANEERKTEERWGD REGRRRRSEEMEVSGKERGHATSGREE KENTG*GPRAEI
5390	13441	A	6226	1	236	RTRGRTRGSTHAFVRQLMQRNLDTGPI MAGHDNLQQLKENSTPDSSLPETSNEKH ISPENMSLKTLRNSNP*DLYDEI
5391	13442	A	6227	3	178	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCPLVGKWIRCSAEALGNRS LI
5392	13443	B	6228	1	1050	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVERQKYKTLES AFLAPAILILL GVVMFMVSFIGVLASLRDNL YLLQAFM YILGICLIMELIGGVVALTFRNQQLLRQ QVLSHTLGCADLSDGPGSGPVKMFMGV PVIPAQPPELLASRLSRGYGLVLSWLEP RYEKMISGMYLGEIVRNILIDFTKKGFLF RGQISETLKTRGIFETKFLSQIESDRLALL QVRAILQQLGLNSTCDDSLVKTVCGVV SRRAAQLCGAGMAAVVDKIRENRGLDR LNVTVGVDGTYKLHPHFSRIMHQT VKE LSPKCNVSFLLSEDGSGKGAALITAVGV RLRTEASS*
5393	13444	A	6229	3	250	SLCQPGWSAVADSRLTASSISQFTPFSC SFPSSWDYRRPLPRPAIFLYF**RRGFTVL GWSRSPDLVIRLSRPPKVLGLQV
5394	13445	A	623	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
5395	13446	A	6230	135	466	GIDTILTLNQN*SLKTRQ*FTLIIF/IFFFL RWSL/DSVAQAGVQWRDLGSLQAPPRG FTPFSCSLPSSWDYRRPLPRPANFFYF** RRGFTMLARMVVIS*PRDLPAEFL
5396	13447	A	6231	593	1030	KCNSSSLNMNEFKFNPFCKMPNSSLIPL GLSAIKVSNKTNT*NMITI*ILWIIFFFFLI WSL/DSVAQAGAQWCHLGSQAPPPEFT PFSCSLPSSWDYRHPPRPA/NFFVFLVE RGFTVLARMVVIS*PRDLPALASQSLWII L
5397	13448	C	6232	17	145	MHRDLFFNIQFISSVYTSLYLLEKCILCKF SIKTLGLIHTMW*
5398	13449	A	6233	82	377	IPGLKRSLLHLSLNSQSCATLPSYFFFFFF FFFYFLERRDLAMLPRLFSSSPGLK*SLH LGFPEHWDYSHEPPSWLFFFIFFNNRRVF LLNVKFYHMY

5399	13450	A	6234	281	1102	RMNIFPWGGWPLGHSQQATLTGPPGVC SPPNPRQNKGRPSLTWKSACGMFSICF FCSVTKTFLKLGPHQRLKSSKTTYAT*DI LKRRVKLCECRPSFLPFFTAWKPLRICW GVAEEGLSSLKEGMLVDSLQPRKPRRCP LPHNRLSTAPTFDPESIPTDPVTLHPLCP KEQRPDPPLPSLGEAPWR*SLPFLHSTPC SLKECETMKPHMCRSPCRGVLTPSATCA QWPDQGWGPVIPGAPFSDEVTVCSNQLL LPEAPACSGNQCLSWFKK
5400	13451	A	6235	2	260	LSLTQAGVQWCDHSSLQP*RLLSNWDH MHAPSCLAIYFF*ETTSYIAQSYLKHLG SSNPPTSASQGTAITGISHWARLDTSQFG H
5401	13452	A	6236	3	224	KSCPGTTPGNGAGASLEDLWWSRAGR GGTSKPCPLSAGCPLAFGPPARLTGASM PPLSALNG*ERRKRQFGL
5402	13453	A	6237	3	307	EAWRMSWGPP*ER*PLPSP*GVCSSC/AP PLPSVSAGLGEPRPPDVEDMSSSDSDSD WDGGSR/PFTISTPRPRLGCLLHAVLFL ARW/PSLPSV*PRTPHCEH
5403	13454	A	6238	265	315	
5404	13455	A	6239	359	785	GNPSWSFPMKAMDSPSLRELQQPLLEGTE C/GDPCPEAW/PGMSWGPP*ER*PLPSP*G VCSSC/APPLPSVSAGLGEPRPPDVEDMS SSDSDSDWDGGSRLSPFLPHDHLGLAVF SMLCCFWPVGIAAFCLAQKVSCLVGLG GDWA
5405	13456	A	624	60	548	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVPWTQRFFDSFGNLS SASAIMGNPKVKAHGKVLTSRGRCHK STWDDLKGTFAQLSELHCGQACMWDP ENFKLLG/VNLVTVLAIPFSGKEFHPWR LAGFPGQKDG*LGVIASALVPSRYH
5406	13457	A	6240	3	277	
5407	13458	A	6241	8	370	RLGEEKAATGVVVHGLDCFFSPRAPTRP GSRLSQDPPGCEI*NPSWSFPMKAMDSPSL RELQQPLLEGTECEDPCPEAWAGIELGSP FKRDSLRCRVEGFCSSCPPLPSVSAGLG GTKAP
5408	13459	A	6242	1	351	KTGSHSVAEAGVQWHHPSSL*PQPPGFK QSPHLRFPKCWDHRRTPPCPGNFFDLR* RWGSHHVAQAGLELLNSRDPPASTSQSA RITAMSHRARPVSTFLSTSTSCPVLSTFH RSLI
5409	13460	A	6243	2	1036	SHTLSYLVKELEVRMDLKAAMPDDHAR KILLSRINNYTIPPEEIGSFLFHAINKPNAP IWLILNEAGLYWRAVGNSFAIACLQRA LNLAPLQYQDVPLVNLANLLIHYGLHLD ATKLLLQALAINSSPELDLF*AGEMAYL ALKNISGALEAFRQALKLTTKCECENSL KLIRCMQIYPFLYNITSSVCSGNCREKTL DNSHDKQKYFDNSQSLDAAEEEPSESGT DEDPAFSVENSGRDSALRLESTVVDES HGSDEMENSDETKMSEILALVDEFQQA WPLEGFGGALEMKGRRSRLTRNTGAEE RSPGWKWPETLAMETAEVKMMKQQNG LHSRSNV
5410	13461	A	6244	31	372	KRVRLGWVAHTYNPSTLGGQGRIT* EALTSLDNIVRTHLYKKFYKLAQVWAC GQTCLEGGKEGYVNMSNVHTGGQGDPC GLLGSLSLGRIFGCTWDSYRHAAMIFG KLK
5411	13462	A	6245	816	929	DRVLLYCPGWNAV*TWLTVASASSAQ AILLPQPPCLA
5412	13463	A	6246	3	119	RRGLAVLPRVLNSWPQVIFLPHAPKVL GL*AQL

5413	13464	A	6247	2	285	RSVLCECRNSVVSQIWGNRLYLVE MYPI MKVEKWAGCCGSCL*SQHFGR LRGVDR LRSGVQQGPQGHDETPSLLKMQKWAGV WWWLPVVPACSL
5414	13465	A	6248	3	437	RPRRLFFLRWSFALVAQAGVQWHD LGS PQPPPPGFK*FLCLSLPSS*DYRNVPPHPA NFVFLVETGFCHVGQAGF*LPTSGDLSA WASQSAGITGVSHLARQAASDFNSRDRR GSQIPSN SQDANQNM EMLNKLKDFPIVT CNT
5415	13466	A	6249	3	459	VLITANLIPAKQCFDCNFLSTFSSVTTEAF VFLCLLVTCVTCMNF LFIHFVHFFSRRVV FFLPILGAPCKMGILFMIQTFLPSLNIFQF GSKCIQQYRILNFYAM*SVTLFLWP IVYK YSFSTISRPTLYNRSTLLPRKDRWKGAR QQTPQ
5416	13467	A	625	32	452	
5417	13468	A	6250	2	342	FKRQSLTLTPRPEYSGTIAHYNLKLLCSS NPPSSASQEAGTTGT YHDT*LIF*FFVETG SPYVAHAGLELPVSSNPPTSASQSGRIID MSHHRKTALLSGKEWTRPPHLL
5418	13469	A	6251	2	207	ARGDPESTVAEAFPTIPHC SMATLIGLPI KVKLLRSLPQSFKVSW S*APGVRPGIEGL LLRMGTGRA
5419	13470	A	6252	1	90	RWLIPISPAL*EAEAGR LLETRSLRPAWS T
5420	13471	A	6253	3	290	RQGFPLCNHKGTVTAD LQPLPPGLK*ISH LSLLSSWNYRCTPPHPAD F*FFVERRSHY VA*ACLELLCSSDLPALISQ RVGITGMST TPGPICLL
5421	13472	A	6254	2	378	AGFTAHVILNHPGQ* SAGYAPVLDCHT AHIACKHAELNEQIDRRSAK KLEHGPNF LNSGDAAIDDMDTVKPM CVESFSHYSPF GRFADRD MRHTVAASVIMALDKKAAV AGKGSNSGQKAHKAK
5422	13473	A	6255	3	735	NASGTTLEALDCILP PTPRPTDKALRLPL QDVYKIGGIGTVPVGR VETGVLPKGMV VTFAPDNVTTEV*SV*LSHEALS EALPG DN/VGAFNVKNVSVKDVRRGNVAGDSK NDPP/QEAAAGFTA HGILNHPGQINAGYA PVLDCHTAHIACKYAE LKEKIDRRSGKK LEDGPKFLKSGDAAI VDMVPGKPMCVE SFSDYPPLGRFAVRDMRQT VAVGVKAV DKKAAAGAGKVTKSAQKAHKAK
5423	13474	A	6256	328	621	PVFLFCFVLFETESRSVAQAGVQWRDLG SLQALPPGSTPFSCLSLPGGW DYRCPPPC SANFFCIFSRDRVSPC*PGWSQFPDLMIR RARPLFLKNRKL
5424	13475	A	6257	1	1245	
5425	13476	A	6258	1	248	FPDQPIHIVYVPSHLH HMLFELFKV*YFTI IEILPFKKGLTSYIFISFIIRHKTEASISFPK NASSPPKRKKLYSQCLTKYM
5426	13477	A	6259	1	1456	
5427	13478	A	626	3	570	HLSGTSEVINKLLVQTAMGHFTEEDKA TITSLWGKVNVEDAGGETLGR L LVVYP WTQRFFD/SFGNLSSASAIMGNPKVKAH GKKVLTSLGDAIKHLDDLKGTF AQLSEL H/CDKLHVDPENFKLLG/NMLLVTVLGN PIFGKEFHPWRLQASWQKQKMAEDGD CSWPVPCSSRLPLSSLAH DGRVFQG
5428	13479	C	6260	63	302	MIYKEKRESVSKEDLARATLV TITNNIGS VARMCVNEKINRVVFVGNFLRVNTLS MKLLGICTGLLVKRSTK SIVSXT*

5429	13480	A	6261	1	2063	MGYGVTAFFIWAFSRVLSSCPASKKNEL MLTAMDICALSLRCATEDPGVAMGRRP ACCYRYCKNKPYPKSRFCRGVPAKIRI FDLGRKKAKVDEFPKCGHMSDEYEQL SSEALEAARICANKYMKVSCGKDGPHIR VRLHSFHVIRINKMLSCAFRAHASKCFQ NFGNMIYKEKRESVSKEDLARATLVITIT NNIGSVARMCAVNEKINRVVFGNFLR VNTLSMKLLAYALDYWSKGQKALFLE HEVCVETVNDGQFHSVELVTNLQTLNL VVDKGTGPKSLGKLQKQPAGGINSPLYLG AFPWFGMDIGGTLVKLSYFEPIDITAEED QEEVESLKSIRKYLTSNVAYGSTGIRDVH LELKDLTLFGRGNLHFRFPTQDLPTFIQ MGRDKNFSTLQTVLCATGGGAYKFEKD FRITIGNLHLHLKLELDCLVKGLLYIDSVS FNGQAECYFANASEPERCQKMPFNLD DPYPLLVVNIGSGVSILAVHSDNYKRV TGTSLLTGCESEFEALEMASKGDSTQAD KLVRDIYGGDYERFGLPGWAVASSFGN MIYKEKRESVSKEDLARATLVITITNNIGS VARMCAVNEKINRVVFGNFLRVNTLS MKLLAYALDYWSKGQKALFLEHEFGY NIGVIS/SS*DSHTGLSQLHFEREVRRLSL* GFAHVPLALVCGHLPQW
5430	13481	A	6262	2	527	ILAVHSDNYKRVGTGSLGGTFLGLCS LLTGCESEFEALEMASKGDSTQADKLVR DIYGGDYERFGLPGWAVASSFGNMIYKE KRESVSKEDLARATLVITITNNIGSVARM CAVNE*INRVVFGNFLRVNTLSMKLLA YALDYWSKGQKALFLEHEGYFGAVGA LLGLPNFS
5431	13482	A	6263	2	186	RNGLRYRQPI*CLIAENFPGLARDIDIWK LETQGVNPNRNLKRSSQRQMIVKLSKV NREF
5432	13483	A	6264	3	180	EMGKGIDSLFNEIIAENFPGLARDIDIWK LETQGVNPNRNLKRSSQRQMIVRLS*VKI
5433	13484	A	6265	3	474	GTDVGVKAAHALSHKKLCLKMTQVTT QWLEILQRLCLHDQLSVQHRGLVIAYNL LAADAELAKKLVESELLEILTVVGKQEP DEKKAEEVHTARECLIKCMDYGFIPVS *TATLRDAGSGPVLCRVLGWLSPGESG HLGIAVTMKSQYKGT
5434	13485	A	6266	2	651	HSEGRGRQRVRQKTDTVREKGRERER QTGRERE*DRRQTQ*DRQRGRERDKDR DRDREKERDRQTEKETQRERQRRTERN RQREGPSPVAIQCLFFHFLFFSFLSCIS VCMVCMYVCMYVCMYCVYLFMYRI YLETGSHSVAQACSAVVRSLGHCSRLP GSSHSSPPASRVAGVTGACPTAPDSISYF QVRDGGFTTLARAGLELLTSG
5435	13486	A	6267	56	901	EEIAVSILLPSALPAPATVGPVALVDGL GGWLCQCQAREQPAE*QPGVLVPPGGR ERQGGCSFRGQSLALLSSADFTGPGYK PHSLSKENLVKIHQLDKKPOEGVFPTLGV SMRIKGRDCRLSSIRSPRVLSPADRFSCMC FPTVKDSVQRTSASAPSSLMIAAEEKC HSSE*PTASGSPQQHQTHTPGATGPAPLQ VETQYTRLSSGLAGPRTLSNESECSKPTL EPKAFVWNKAKFCLCYLVVSPQLIPRHH GSDMGSHTFEIPLLARKGCPRQAVW
5436	13487	A	6268	132	378	YHSQRCRRGVIVLSKSKARSRRSRMKQ YKNETVKDKGKYHKNVSMISLK*LEKP VRPLELYYYYYYYYYYYYYYVQVLS
5437	13488	A	6269	3	397	QRDLTRHISLSKSTGVHLPENLNSARRI RNISGHRKSETEKESGL*PALRQILNASW RKVIWEQVIQLVS*TTRELRRG*LSVGID DVGVETVTLVVVFLCSSTIVALLCFSYV SCLCPCWCLLSLCSF

5438	13489	A	627	62	281	SGVYFSFVQRLKTLTQHLILIFGFLP*EYP TLTTFEGEIISKHPFLTRKWDADDEDVD RKHVWSKSDLCWVI
5439	13490	A	6270	2	250	KKARRSGVILAHCSLELPGSSGSLFSPA SSWDYRSAPPPPSNIFLLF*GRVLTMLP RLASNSWAQAILLRWPPKVLGLQV
5440	13491	A	6271	118	184	QKEKL*KMGAVLKSLCNASILIRNANKC NNRRKSYQPFSEMNIDAKVLNKI
5441	13492	A	6272	798	1096	KIMLEHLYSFFEAESRSVIQAGVQWRDL CSLQAPPPGFTPFSCSLQSSWDYRHLPP HPTNFFCIFSRDEVSPC*PGWSRSPDVVIC LPWPPKVLGLQA
5442	13493	A	6273	3	163	HASAHASGHASGGAEGKQAEVANQDST EDLPAENGEAKTDDSPASDEAGENDA*S DEAGENDA
5443	13494	A	6274	3	330	INIRFYLSIKASARSTQG*VSSCTKLQIF FFFFFEMESCSVTQAGVQWRNLSSLQPL PPGFKQFSCLSLPSS*DYRCPPRPANFCI FSRDGVSPC*PGWSQTPDLR
5444	13495	A	6275	167	362	SPYGKSNLLEPSASRFKQFFCLGPLNNW DYRLFPPFPNGFVFKKNRVFPFWPSLV* TPDSRGIP
5445	13496	A	6276	2	354	
5446	13497	A	6277	196	321	EQTKAKCPGAHEQVVK*NN*GHLLSPA HFSHLQLKQFDKMI
5447	13498	A	6278	1	923	MERWRDRLALVTGASGGIGAAVARALV QQGLKVVGARTVGNIEELAAECKSAG YPGTILIPYRCDLSNEEDILSMFSAIRSQHS AVDICINNAGLARPDTLTSGSTSGWKDM FNVNVLALSICTREAYQVHEGSGMWT GHIN*HQ*ACLATRVLPSTHVFYSATK YAVTALTEGLRQELREAQTHIRATWQLR REEAAAGYQAAITVKLGFCGLHPLPSTS PRPGKAQPLRRPSLLAQCSIPGVVETQFA FKLHDKDPEKAAATYEQMKCLKPEDVA EAVIYVLSTPAHIQIGDIQMRPTEQVTY
5448	13499	A	6279	28	311	AGVQWCRLSSMQPPRRKLKSLFSLPS SWDYGCTPIARLIFVETGFHHVA*AGL KLLSLNLPT*ASQSAGITGMNHQAQPMI SIFKSSSFG
5449	13500	A	628	1	395	
5450	13501	A	6280	1	304	
5451	13502	A	6281	62	299	LFFSPQTHPTQTAFLLSSVDLHCHSYQM MLPESVAIVCSPKFQE*V*RAWFWVFQG GSREESLRGKGLYSCGLVLCKIP
5452	13503	A	6282	110	276	QSETLSQKKKKKKKNW/YKCGGTHL/LI QATREAEAEELLQTG/GRGCSEPLHHSTP AW
5453	13504	A	6283	380	507	SMNPGSPVCVMLITRIP/FCIAHAHLRCC MVL*LHHFHFRLSIC
5454	13505	A	6284	14	235	DRVSLCHPGGGGCSELRSCHCNLAWVT EQNFVSKQKEKKR*LLYT*LVLPMSDGL HVAQDSFECSSTQICKLS
5455	13506	A	6285	494	789	DHRFAPSHLADFYFFCRDGVVQ*NDLDS WQA*PPGLKDHLPS*DHRFAPSHLADF YFFCRDGVVQAGLKLSSSNVPALASQS AGIIGVNHCTQPTLCLFKMMYLFNFCHH WVLHLPKEIPEPVFKLPRVFYTPFNCLS K
5456	13507	A	6286	3	107	HIQLCR*LIHTHTHTHTHTHTQFYLFK** HSAC
5457	13508	A	6287	2	214	VDFFFFFFKLDRVSVCCPSWKFSG*WL FTRTDHRTLPQTGKQSSCLSPSRWDY KCVPOHVSSLSPS
5458	13509	A	6288	3	213	LLKQNKH*SRILYPTKLSFMNEREIKSFS DKHMLREFVTRPDLQEMQKGVNLKT

						KGWHAPE*NLLKA
5459	13510	A	6289	1120	1668	SGDALFPLFFLFNFRVTKLRSSLWMHLG KQLPEPPNSRPTVETQKGSS*DT/PPR*SP *ACFHNSLFPRFG*PTLI*QEHLTTCLL/PG DFFFFFF*DRVLP CYPGWEYSAKTMAHG SPNLE*SSHLSPSSWDHRRMPLCLAN* KKKKKFQRHGLLMLPKLVLSWAQVIV LLWPPKVLGLQG
5460	13511	A	629	27	121	APTPDAMGHLYED*ATTISLWCKVNVD DSG
5461	13512	A	6290	186	297	PNLG*LNPPPPRLKHFSCGLPSSWNKKA IACHGAK
5462	13513	A	6291	59	132	
5463	13514	A	6292	1	335	
5464	13515	A	6293	1	457	FETRAGSIAQAGVQWCHLGLLQPPPPGL KRSSCPQP*VTWDYRRTPSSPG*FLYFL* KTGCHHVAPGCKLVSSSDLPLASQSA GITDRHQPPCLGPKLWTLRKLGDIFLW FHDNLGYTLGRNTHFSTSRVITVFRS FKHSTPDFSG
5465	13516	A	6294	76	343	YTFSSFLYFTFFPLDNSKPKIFFFFFFFF FFFKETWIVLIGLNAGYM*TPQK*EALL GNTITHVTRLAKHSVLLT**IE*VHDSTF
5466	13517	A	6295	362	561	LEHNIFLSFETDSRSVAQAGLQWCNLSL QLLPPGFKRFSCISLVS*KAFCGPPQLLN FTPIVQY
5467	13518	A	6296	3	349	FFLETEPSCSVAQVGQWPDGLSLQPHL PRFK*FSCSLSSWDYRHAPPHSANLYI FSRDGVSPHWPGRSQTPDLRRPTLLSLPK RLDYSVSHRAQPWPYFRNKEEARPNPFF S
5468	13519	A	6297	42	266	
5469	13520	A	6298	106	860	RRRRLPSVAIMIIYRDLISHDEMFSDIYKI REIADGLCWEVEGKMVSRTGNIIDSL IGGNASAEAGPEEGTEQHS*SLVVDHC HRTYHLAVKASFTKEAYKKYIKDYMT INQQGNLQQRPERSKTFY*QGAVEQIK HILA*FQKTTQSFME/NMNPDMVALL DYRED/GVVTPYMIFFKDGLRNGKNVNK CGQLFWDLSPIINWASAWSTQHGLK TKWGLMVIFELLHFILDWGFIEVAIVF
5470	13521	A	6299	10	281	SRSFFLSFFLFVEMECHSVAKSGMQWRN IGSLQPPPPGFNFQFSLSPNSWDYRCLP LHLANFCHSRDKVSPCWSAWFSRST*PT PDLK
5471	13522	A	63	547	644	IPGRPWR*L*S*PVILRLQPQATSGG*MVR ASL
5472	13523	A	630	128	379	FNSRPSLRIGLFCITCSLWDCFWCCWIHA SLYSVIRSLLSFGTLVCFSLFCVAFLSFSF *VVLFFLLFISSGFFSFVFLVFLF
5473	13524	A	6300	3	111	FIKIHGLPMLPRLV*NSWPQAILLPWPPK VLGLQA
5474	13525	A	6301	2530	4923	TVPHH/AFILFFF/CFFERESYSAAGTGVQ WHNLGSLQPLPPGFK*FSCSLPSCWDC GHGGVSL
5475	13526	A	6302	2	300	GSFALVAQAGVQWWDLGSOQPPPPGPK QFSCSLSSWDYRRALPWLANFVFLVE TGLHHVGQAGL*LLTSSDPPALASQSAGI TGVGLASTYFIEVI
5476	13527	A	6303	1	453	
5477	13528	A	6304	305	432	FLHFK*MMNNMGGDEVDLPEVDGAD DVSLKILFSVYFHTIK
5478	13529	A	6305	3	306	
5479	13530	A	6306	1	122	TRPEFPGRTPSQKG*GKKEEKPET*KER TGPSEKGETKA

5480	13531	A	6307	2	392	CSCSAEAASSGGAAPVRCFTFCFTDIVI MPKKGKSPENTEGKDGSKVTKQEPTRRS ARLSAKPAPPKPEPKPRKTSKKEPGAK ISRGAKGKKEEKQEAQKEGTAPSHEGE TKAVEEA\QKTESVDNEGE
5481	13532	A	6308	3	426	AGNSSIQGHGGWTLRHSLSFLSLLPFSR GPQCMGAVQPLVLKQPRDASLRGCLLG YDSTATGLY*ILCNLRRHPGVMPSCGAR VLRDHNPEIDIEWLCSLSLLEVLSGLSST PGLTLADQAGHSGGIMPLEGSLRSDCC
5482	13533	A	6309	3	372	HAGLGAHPLHHPVIQEGFLPAPRGFGY RSEVD*IRIPAESTGQNSQCQLRK*KDD YFHCYFCGCVCTCRGRLQSSTSHQCQA AL*LLPVCLTMLRCISSLIYT*NLKTVHS VRLNFIYN
5483	13534	A	631	1	371	RQGPQGGRAAPRPPMPGPPLSSARHALP LGSWESWCCCCCLIPADRPWDRGQHWQL EMADTRSVHETMMQASRKEIQSLPKNG SFPSTNEMRLRYYSYNQASE*P*KLSRP GLWDPGRKWD
5484	13535	A	6310	1	230	SGRPFLFFQCKERVYFIPVVVLFYTVVV Q*LRKNVVRWQKTMEPPRSWLMLQGH TEEGPGYPLLGETETKLFRTA
5485	13536	A	6311	2	100	RRPFFFFFASCI*NLISPNVQLSNFTCILR N
5486	13537	A	6312	2	192	
5487	13538	A	6313	1	451	
5488	13539	A	6314	231	1335	
5489	13540	A	6315	636	852	FRGSGPRDKTPNCLISLLFSWQPHYFLQR FLYAKLLGLLAELRSINEAYGYIQHIQG LSAMMLLL*EICS
5490	13541	A	6316	1	690	
5491	13542	A	6317	3	302	GFRGCKPQALAASTWC*LCSCTEVKN*G LGTSTWISEDVRKHLDVQAEVCKGGA LVDNLCQGSGTEGKCGVRAPTQSPQWGT AWWSYQKRATILQIPEW
5492	13543	A	6318	1919	2245	PMQRSP*RT*WS*KPWQENYVMRAQDS VADSINWKKG*QRLKIK*MK*SKKRSL KKE*KEMNKASKKYGT*MDQIYVGLV YLKVTGRMEPSWKTLCRILSRRTSPT
5493	13544	C	6319	395	1096	
5494	13545	A	632	323	585	SOHFGRTKPEDSLRPGI*DQTGQPRETLF LQNLKKKLAGHGGACLSQLGRLRWE DRLISGV*GCSDT*LYHCTPAWVTEQDP VSE
5495	13546	A	6320	304	475	PRQTGSGVDLRQTPTDLQLRV*LLEGKI TNRKGHLHQNPICSPSSKTKGKDQIYV
5496	13547	A	6321	224	1767	HCLSNVSAGLHPFTSYCLLHEKKFKA LSLGECCDGDADGGDGSMAKSGP LAAGLLEFAGGPLQTLFAWVSAAEAAE QPILLNSKCCCLIVPLEASSWRGTRPCEVI VSEAGASIYSVSPEANKEMPGLDPNLRS AVSIARRVQDPLAELVKIEPKHIGVGM YQHDVSQTLKATLDSVVEECVSFVGVDI NICSEVLLRHIALNANRAKNIEWREKN GPFINREQLKKVKGGLPKSFQCCWAFI RNQPGLYPNVLQSANLKLQAKFQGVAV TSSADVEVTNEKQGGKSKTAVNVLLK PNPLDQTCIHPEYDIAMRFLSSIGGTYE VGKPEMQQKINSFLEKEGMEKIAERLQT TVHTLQVHHRWVFSQPEGDFDRTDF**T WIFKEEGIVCLEDLQIGTVLTGKVENATL FGIFVDIGVGKSLPIRNVTEAKLSKTKK RRSLGLPGERVEVQVLNIDIPRSRITLD LIQGVMSIPRRPDADFISFPQIDKDKSVV CKL

5497	13548	A	6322	2	64	AFRFSVVRIHERSHTGEKPYECKQCGK AFISSSHFRLHERTHMGEKV*EYKQHSE AFGCSSSF*IHKRVTGQKLCEYKHCSK ALD*SSFF*ARKNSHW*ETL
5498	13549	A	6323	168	499	VCSSAKQ*QTCFSLVSPTM*NLIKEFLNN IKFPQQDGTSQLVSGENVDRKIVGVS GVGSYLGSKIFRLGAVAHTCNPSTLGGR GGQITRSGDGDHPGQGETPSLLKI
5499	13550	A	6324	165	548	SPSQHSLVPSTPLPGSVLWGGGCLPCAA EGRSQQGDGWLRRSSVDLAVGDGEGK EVPRPLALGCDLARDGSRTLSPLGPCPKP LGQRWES*ELRKVPGLAPDLSVESAPRS WEAPECQOMLQLSP
5500	13551	A	6325	18	225	TLGLK*SSHLSLSSWDYRCMPHLAN* NFCLFVF*RWGLAVLPRLLLNSWPSAILP PWPLKVLELQV
5501	13552	A	6326	724	900	MTSFSDKFQSFQNRGSTIVTIAHFWSRKY LSDKECS*NACVVFHISI*KWANTKTFIP D
5502	13553	A	6327	15	185	VPFENPWVDPVRPRVRFFSTGTFRCCA H*IS*LLQSGSSQASLCRYNEESQKHAAL SLSKEHNPTQYEERMRIQKAGGNVR*PR QACVVIMRRVKNMQP
5503	13554	A	6328	199	544	PARLGLEEGRYLITGRGWVWVWLTVPVIPA FWEAEVARSQGGQKJETILANMVKPHLY* KYKKKLAGGGGGYL*S*LLGRLRQENG VNLGGGACSEPRSCHCTPAWATEQDSV SKNKK
5504	13555	A	6329	837	1096	
5505	13556	A	633	1	231	
5506	13557	A	6330	454	526	
5507	13558	A	6331	258	488	NTVSTRKYKKLARRSGGCL*SOLLGRLR QENDVNPGGGACSEPRSRHCTPAWATE RDSVSKKKKKKKCFQSSILK
5508	13559	A	6332	3001	3080	
5509	13560	A	6333	6181	6292	
5510	13561	A	6334	3	222	ASVTACRLNCQGCSPCQPFPCPHLAAPL P*VNPQLETPFP*ARTQRIPLPSG*PGTPS PKPTNHIPLTDPL
5511	13562	A	6335	2	227	FFETESRSLTQAGMQWPNLGSLOPPRPG FKQFCSLSLPSRWDRHMPSGLANFCIFS RDGVSPY*SGWS*TPDLR
5512	13563	A	6336	2	218	TWRLAVAQAGVQWRNLSSLQPLPPGFK *SSCLSLPSSWEYRLPPRPANFYIFSRDR VSPCWPGWSQTPDLR
5513	13564	A	6337	31	165	GSHTVTQAGMQ*SNHGSLOLYLPSLRFF SYLNLPSWDQSRNKEG
5514	13565	A	6338	122	376	KMGPLSSSSLPEAECDPRAATLGMNKM LHSHWVSSIAPVDPGMG*KAASGPDFET GQAEARLSPPSLQESSVWPGDFPHQIC
5515	13566	A	6339	3	268	GRVAVRKEKGSFWLVVFNWLSLDLWPL PPLPGELA*TFLKSSLRPPAPRPPPPQT PSPTPRSLAVSSEGWRLLSMTLESDDL DL
5516	13567	A	634	1	686	ARAGLGFSCFGVPDSGIGGAMSSFEGQ MAEYPTISIDRFDRNLRARAYFLSHCH KDHMKGLRAPTLKRRLECSLKVYLY*SP VTKEVLLTSPKYRFWKRIISIEIETPTQIS LVDEASGEKEIVTLLPAGHCPGSMVF LFQGNNGTVLYTGDFRLAQGEAARMEL LHSGGRVKDIQSVYLDTTFCDFRYQIPS REECLSGVLELVPKLDHSEVPCCVAEL Q
5517	13568	A	6340	2	218	IYTHIH*IDPMFSL*GHMEGEVWGLATHP YLPICATVSDDKTLRIWDLSPSHCMLAV RKLKKGKRLSHLNV

5518	13569	A	6341	1	5748	MPLKLQNCALHPERVLVATGQVGKEP YICIWDSYTVQTISVLKDVHTHGIACLAFL DLDGQCSVKAVIDNARRNECGYIPVKLY LQKHSFSLICLPFYSLDFLDINQRLVSVG LDSKNAV CVWDWKRGMKLSMAPGHTD RFWSLCGNALTPKRGVFGKTGDLQILC LACARDELTYSGALNGDIYVWKGINLIR TIQGAHAAGIFSMNACEEGFATGGRDGC IRLWDLTFKPITVIDLRETDQGYKGLSVR SV
5519	13570	A	6342	2	252	PPE*LGPNQCQGPPTPLPKFW*ILSKKNG GSPPIIGPGPILKPP*PLRWIPPCPLSPKCL RLPGHKPSAPQEN
5520	13571	A	6343	289	395	SRICPHRDTRKEYNSYTI AFLINLLKFAEL DCIVYFRLNDN*M*IFRCSTIFYNPALAF HILRKPTTSFF*GRFLLEMP*MLLLII*I PNYLIQIIKRSI
5521	13572	A	6344	262	389	PQVTFASIASRYATILL*FF*PCLVFYSLPN QFYVQGKLANA
5522	13573	A	6345	1	103	QSFTYCFESF*NLSVFLYCLYRITN*VYY LYVE
5523	13574	A	6346	7	156	LFSFHVSGTMAHTCNPSTLTG*GRIT*GL EFKTSLGNTVRSHRYRKKKIA
5524	13575	A	6347	94	469	NCTYVIKVVYNLIRHMYTPITAIISTRFKI YWYSLIFS*ICIHIFETRSLTPIAQAGVWC HDHSSLQPLPPGLR*SSYLSLSSWDYRH TPPCSANLCVCVCRDRRVSPCYGWLLN ILNVCII
5525	13576	A	6348	1	226	FFEMESHSVTQAGVQWPDLSLQPLPPG FK*FFCLSFPSWDYRHTPPHPAYFCFSR NGVSPCWPGWPRTDPDR
5526	13577	A	6349	3	308	KDEKGEEDGKEDKNGNEKGEDAKEND DGKEKGDKKEGKDVKEDEKEREDG KEDEGGNEEEAGKEKEDLKEEEEGKEED EIKEDDGKKEEPQSIV*NCPM
5527	13578	A	635	52	264	GLLVGVGAAAVMPGIVELPTLEELKVDE VNISSAALKDACHDYGDEWDKPNVDIM L**LEQLHPSMGQAL
5528	13579	A	6350	1	239	MDGGTEKPFACPV*CTKRYKNVNGIK YHAKNGHRTQIRVRKPFKCRGKSYKT AQGLRHHTINFHPPVSAEIRKMQQ
5529	13580	A	6351	219	688	RRMHAYVSLDPLERPPFFFFFLFFFFF LRRSFALVAQAGVHWRDLGSPQPPPRF K*FSCLSLPSSWNRYRHAPPRANFVFLVE TGLQLPTSGDLPASASQSVGITGVSHCA WPGNWLLKETRCGSSVGRQITGPITDA WVDPGIPDRYLQA
5530	13581	A	6352	3251	3700	KWPYWLKEESSKLLHHQETS*HSNLGN* ASGLRTLPHYRAEQGKE*GMQTSGR*TR* KEALFSITTDQRRPAVGSSSLPAGHLCS QRRRAFTDLRGEDVLADWSMGYGWP RRGPRIPTLVGRGAHSMATTITDPHRVL PAYHQCSPCI
5531	13582	A	6353	3	347	DAWEQTQDTEL VETRPAGDGTGQKWA VVVPSGEEQRYTCHVQHEGLPQPLILRW EQSPQPTIPIVIVAGLVVLGAVVTGAVV AAVMWRKKSSDRNRGSYSQAAV*DSFL VWD
5532	13583	A	6354	3	174	

5533	13584	B	6355	10	720	MAPRTLVLSSGALALTQTWAGSQSMR YFSTSVSRPGRGEPRIAVGYVDDTQFV RFSDSAASQRMERAPWIEQEGPEYWD GETRKVKAHSQTDRENRIALRYYNQSE AGSHTLQMMFGCDVGS DGRFLRGYHQ YAYDGKDIALKEDLRSWTAADMAAQI TKRKWEAAHVAEQRAYLEGTCVDGL RRYLENGKETLQRTDPPKTHMTHHPISD HEATLRCWALGFYPCGDHT*
5534	13585	A	6356	3	223	
5535	13586	A	6357	1	179	RSQVIRHQRIPTGQKSYKCHKC/QGGFSL RSLLAEHQKIHF*DN*CTGNEYSKPSSIN CH
5536	13587	A	6358	38	294	LHLMQNRRLHTGDKLHKYDDC/GKAFT SHSHLRHQRIHTGQKSYKCHQCGKVFS LRSLLA EYQKIYF*DNSSECNEYSKPSSIN
5537	13588	A	6359	2	244	
5538	13589	A	636	1	380	KHSVCGRARASCSSFASVFLISKMVRE QYTTATEGICIERPENQYVYKIGYGWKR RCLYLVLG LLLMILVVNITLTIWILNVTW VSSTSTAPHRV*H*NSLCAETQLQLR LPK RGRHVNFEPY
5539	13590	A	6360	339	1079	ILSLPLPLLAGGTDIISCFMGHNFSLPVYK GEIQARNLGMAVEAWNEE*KAGWGESG ELACTKPIPCQPTHFWNDENG NKYRKA YFSKFPSIWAHGDY*RINPKTGGIVMLGR SDGTLNPNGVRFSGSEIYNIVESFQEVED SLCVPQY NKYREERVILFLKMASGHAFQ PDLVKRIRDAIRMGLSARHVPSLILETKG IPYTLNGKKVEVAVKQIIAGKAVEQGA FSNPETLDLYRDIPELQGF
5540	13591	A	6361	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYKEMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTGIF ETKFLSQIESDR LALLQVRAILQQLGLNS TCDD SILVKTVCVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTVGVDGTL KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSGKGAALITAVGVRLRTEASS
5541	13592	A	6362	2	55	FFLRRSFTLVAQAGVQWRDLGSLQPPL RFR*FSCLSLPSSWDYRCLPPLANFLHF QQRRSFTILARLLVSNS*PRDLPASASQS AGITGMSHHACPV I*FFFETEFHSCCPGW SAVA
5542	13593	A	6363	167	293	VVKLLGILLNQMKTKMNF GDFLTVM T QKMSEKDTKEEILKSSQFHHHQRA*KLF DDDET GKISGFL
5543	13594	A	6364	3	226	FLR*SLAVNQAGVQGRHLRSLQPLPRF KLFSLLYLPSWDYSHAPLPANFCIFSR NDVSPCWPGRSQTPDLK
5544	13595	A	6365	1	648	
5545	13596	A	6366	26	612	VGAGGRGWRF AAAVRRAAGGGLRPGP APGPRAGGGGPRGAHLALLRRAGALRA GKEYGKADARWVYFDPTTVSVEILAVAL DVSLALFLIYAIVKEKYRHFLQITLCVC ELYGCWMTFLPEWAHPEAPNLQQPATG WLYWLGFTLFFF*RCVGFLIPRNWLLWA VHGPRTSRKWHQKGNQFQWKEVFSGTF QNP
5546	13597	A	6367	3	292	TPWL RDFHDPIVEVEVSVPFGEPLLSAP GLPEPRAGHSVPSGLSVVAFPSFSSDNVP GSLEHLLVLHFPGGDVSLRPLCLPI*ETF MIPLSRLRCPCSRVSFSSQHQACLSLGL VILSPVASVWLLFHRFLLTMSQVPWSIFL FSISPGATCPCSCALCAFLSRSEELRSHLCH R

5547	13598	A	6368	237	1202	
5548	13599	A	6369	2	58	PRVRCFIYTGKAPNLDKMADDLLAAAD KVR*EGSKPRQNG
5549	13600	A	637	23	360	LCQSQATLLSIFSQYQKHIKRTAKHHT SEAIESYYQRYLNGVVKNGAAPVLLDLA NEVDYAPSLMARLILERFLQEHEETSPFK GHINMMLRYPSPQIPDGALAY*VYHGK
5550	13601	A	6370	1	1136	MSSGPVAESWCYTQVVHFLFNCFFFYQ QIKVVKFSYMWTTNNFSFCREEMGEVIK SSTFSSGANDKLKWLVRVNPVKGLDEESK DYLSTYLLLVSCPKEVRAKFKFSILNAK GEETKAMESQRAAYRFVQGKDWGFKKFI RRDFLLDEANGLLPDDKLTLCFCEVSVQ DSVNISGQNTMNMVKVPECRLADELGG LSENRFTDCCLCVAGQEFQAHKAILAA RSPVFSAMFEHEMEESKKNRVEINDVEP EVFKEMMCFIYTGKAPNLDKMANDLL AADKYALERLKMVEDALCSNLSVEN AAEILADLHSAQLKTAQVDFINYHAS DVLETSGWKSMMVVSHPHLVDEAYRSLA SAQCPFLGPFRKRLKQS
5551	13602	A	6371	21	358	GCRHSASCAAPRALGPAPOR*PKAGR VFPERTS*I*G*PAPGRRHPGPRIGRRR RSGCSRVRSSVRDC/PSSRSKASNPPLSL SSSTVGCDGARPPCSV*RSRFPGAR
5552	13603	A	6372	1	1458	SLPRNLPTIISQDFGDASPRNGQEADD SSTSEESPEDSKYFLPYHPPQRRMNLKGI QLQRAKSPISLKRTSDFQAKGHEEEGTD ASPSSCGSLPITNSFTKMPPRSRSSSIMSITA EPPGNDISVRRYKEDAPHRSTVEEDNDS GGFDALDLDELAAGETVAQSPPGVPCQP PLFQGSPLCQLRLPTDETKDEWSSLMG KHQRYQVLKRDDSHERYSGPSSIHSSSS SHQSEGLDAYDLEQVNLMMFRKFSLECR NRGPQRKGLAKAMQHGRGKEVGPRYP AVPIHDTVEPDPSGLRSPLWGTCGAQGP RCSTRR*MATASPPSSPCWGATREGASC TRSSLALWPRKPASVRATSCCC*KAASE ARGRVSRWTHAPKRKPTGSRGAAAPS RCTKGQPRSPAENPWACRI*CGQHLQSP ELRSSTALQVWNSRERKFIPAGVPEAGE GHGGRPDHIGGLVLHPAEPEHLQAPGRL HHVPEV
5553	13604	A	6373	103	226	CCFEILKLMKILISEMHLMLFFL*QLRKS A*IPYVPELFLS
5554	13605	A	6374	112	303	
5555	13606	A	6375	3	109	AWKFFFYFILLFFFLEKHHFYVQ*NISL A*KKKK
5556	13607	A	6376	22	175	THDHVSUYFFFLGLKSTIEQCDIKMQIFL FI*VENHLPVSIYILKYFLWIL
5557	13608	A	6377	1596	1878	TMSDITTFKALR*QLPVTRTKIDWNKILSY KIGKEMQNA
5558	13609	A	6378	394	626	SDSVNPQLRVFKILN*SLGILKTHIQIKLF FFFFSALTFALGTLVVCVSIYLYGLPRQD TTSIQQGETASKERVIGV
5559	13610	A	6379	2	101	KTLVPLILPIITLANPCKKD*YPYVVKISI AC
5560	13611	A	638	1	77	
5561	13612	A	6380	1	297	SRFKRFFCLSLPSSWDYRHAPTHALANF VFLIETGFLHVGQAGLKL*GDLPALAS QSAGITGGNHCTRQVQCFFRCWGYTRES GQKLDPARVMFENK
5562	13613	A	6381	1	394	TGTHFHFYLLLVLLFLEMGPQSITQADV QGHNHSSLPQTPGLKQSSRLSL*NSWD YRHTPPHPANFFRIL*RQGSYVAQG*SQ TPGLKQFSRLGFPKRWGYRHESPHMAR DRYSYCPHFDEETGDPER

5563	13614	A	6382	3	160	QL*WSHLLKMLQRYSSCNV**KRRGLIR TYGLDMCSQSLCQYAKDIGFIKLD
5564	13615	A	6383	1	1240	
5565	13616	A	6384	3	3129	KLGSMEPAPARSPRPQQDPARPQEPTMP PPETPSEGRQSPSPSPTERAPASEEEFQF LRCQQCQAEAKCPKLLPCLHTLCSGCLE ASGMQCPICQAPWPLGADTPALDNVFFE SLQRRLSVYRQIVDAQAVCTRCKESADF WCFECEQLLCAKCFEAHQWFLKHEARP LAELRNQSVREFLDGTRKTNNIFCSNP HRTPTLTSIYCRGCSKPLCCSCALLDSSH SELKCDISAEIQQRQEELDAMTQALQEQ D
5566	13617	A	6385	2	416	ACCLLYRGDMVPKDVNAIVTIKTKRRI QFVD*CPTGFMDGINYPSTVVPVENLD KVQRAVCMLSNNTAIAEAWARLDHKFD LMYAKRAVFWHYMGAEAMEEGEFSAR EDMAALDKDYEEVDADSVQR*GDEDGQ EY
5567	13618	B	6386	95	412	TNRSIQFGDWCPGTGFKVGINYQPPTAVP AGDLANVQRAVCMLSNNTAIAEAWARL DHKFDLMYAKRAVFWHYVGEGMEEGD FSKAREDMAALEKDYEEVCVDSVE*
5568	13619	A	6387	2	614	
5569	13620	A	6388	151	1605	RGKTLRGLWRFKIPHTSRENMRECISIH VGQAGVQIGNACWELYCLEHGIQPDGQ MPSDKTIGGGDDSFNTFFSETGAGKHVP RAVFDLEPTVIDEVRTGTyrQLFHPEQ LITGKEDAANNYARGHYTIGKEIDLVD RIRKLADQCTRLOGLVHFHSGGGTGSG FTSLMERLSVDYGKKSLEFSIYPAPQV STAVVEPYNSILTHTTLEHSDCAFMD NEAIYDICRRNLDIERPTYTNLRLIGQIV SSITASLRFDGALNVDLTFQTNLVPYPR IHFPLATYAPVISAEEKAYHDQLSVAEIT NACFEPANQMVKCDPRHGKKMACCLL YRGDVPKKECHMLAILPPSKTKRTYPCF VDWVRPSGPHRCGISTIQPPTLLVPGGD TGARYQRSCVHC*ANTTAIAEAWARLD HKFDLMYAKRAVFWHYVGEGMEEGE FSEAREDMAALEKDYEEVGVD\SVGE EEEEGEY
5570	13621	A	6389	1	251	CLKEISFLNGSLTPGAAVKSWLTATSACS FKGFSCSLSSSWNYRCAPPRPTNFCIFS KDRVSLFLLFSLFLPLLARLVNLY*PQV IHLPWTPKVLGL*AAVKSWLTATSACSF KGFSCSLSSSWNYRCAPPRPTNFCIFSK DRVSLFLLFSLFLPLLARLVNLY
5571	13622	A	639	34	421	
5572	13623	A	6390	3	445	RLFFFFFVFLVEMGFCHVGQAGLKLVT CDPPTSASQSAGIAGVSHRA*PNTSLK*K LTDSPGICFFVCFEIES
5573	13624	A	6391	2	176	CKFAHGNAELHEWEERRDALGMKLNK ARKDHLIGPNDNDFGKYRFLFKDLN*YA GFYV
5574	13625	A	6392	186	374	
5575	13626	A	6393	872	1122	LRPWKPLCSSVERLWLPVELLP PPPAG VLPQPSAQYGERRTFGLTCQGGPGTRAG PSMGCTGYT*RVISISQVASGPFHHWPL
5576	13627	A	6394	3	415	ERLWLPVELLP PPPAGVLPQPSAQYGE RRTFGLTCQGGPGTRAGPSMGCTGYT*R VSISQVASGPSPLASRMVQRGWLGPFVR LLPAAALGDMCAHLASSSPCSPLLT VPR ASQVPPKELDPISPCSLRPRKVS GP

5577	13628	A	6395	3	349	VSVVEFLCSKRFAQWSHLAQHQLLHTG EKPPFCLECGRCFRQRWSLAVHKCSPKA PNCSPRSAIGGSSQRGNH*KGKDCLRSF HFMEGPRKGKEEPQVIQGRVRTKPGSPA AQS
5578	13629	A	6396	2	352	EGAAPSSGGPLRDFWGFPRNTNKPCSGT G*SLQRICWMASLAPPGPAPRGOAPHTH RPLGRPSRGAQVQPAAGQATSKQSP GPGFWSQLPQDLTTASVSPSVNGASKAC LECKS
5579	13630	A	6397	2	361	GGEDPPALCRKPTAQTQTGKKHSGTAA VRSRERHKEVRAGHSLSALDSPSLLPGI LSPVHQCDVTRVDPIPSLLTALLWLP SAPK*RSEPHKPGVGPVWSAPPTSGEDLILL ATSAH
5580	13631	A	6398	11	967	GSWSGLGARPPGGWNYTGSKKLSPGGE AL*MKRSKELITKNHSQEETSILRCWKCR KCIASSGCFMEYLENQVIKDKDDSVDAQ NICHVWHMNVEALPEWISCLIQKAQWT VGKLNCPFCGARLGGFNFVSTPKCSCGQ LAAVHLSKSRDYOPTQAGRLMRPSVK YLSHPIVQSGCDKEALLTGGGSENRRNHR LLNMARNNNNDPGRLTEALCLEVRPTYFE MKNEKLLSKASEPKYQLFVPQLVTGRC ATRAFHRKSHSLDLNISEKLTLLPTLYEI HSKTTAYSRLNETQPIDLSGLPLQSSKNS YSFQNPSSFGS
5581	13632	A	6399	105	465	SRAYCSLTLDFFGLKQSSHLSPQVAGPT GACYHAWPIF*ILAQMRSHYVARAGLEL LSSRDPPASASQSAGVTGISHHAWPVLL LYLAGTQSPHEFIYDGLDNVSSCLHANF SSLSYST
5582	13633	A	64	647	885	TGNLQNGRKFSQPTHLTKG*YPESTMNS NKFTRKKQTTPSKSSSPQRRTHRQRPW GSSQPLPAHSASPGRGSCSQHHF
5583	13634	A	640	3	345	DAWAWPLNRGFFRMMMDIGAAGVMQ GGDSVELLDIPILKLPDGSDIPLPILLGRL GFHPLKNTVCYGHLDVQPALEDGWD SEPFTLVERDGTILHGRGSTDD*VPLAGW INA
5584	13635	A	6400	1	462	HKSDGSTVSVPMMAQTNKFNYTEFTTP DGHYYDILELPYHGDTLSMFIAAPYEKE VPLSALTNILSAQLISHWKGNMTRLPRLL VLPKFSLETEVDLRKPLENLGMTDMFRQ FQADFTSLSDQEPLHVAQALQKVKIEVN ESGTVA\SSSTAVI
5585	13636	A	6401	3	569	NQASLSFLHLRPYSGHLIRGTPGRGWGK VGAASQRGPRLEQPLAICRFSLETEVDL RKPLENLGMTDMFRQFQADFTSLSDQEP LHGPQAL*KVKIEVNESGTVASSSTGESG SGEAPRVSPSPFRITGPQTRKGPRSPGLT EQLCLCSAITHSPVVSQPGKRAWDHGT LFPRLMAPKFPDCEKAS
5586	13637	A	6402	3	194	FFFTCTQMFIATLFTAPNWKQPRCPSIG Q*TNLFNEAVLSREESIKTKTRDRCYHM DRISK
5587	13638	A	6403	2	223	EMESCSITQAGVQW*DLSSLQPPPPGFQR VSCLSFPSWDYRYLPPRLANFCIFSRDG VSPC*PGWSRTPDLR
5588	13639	A	6404	2	247	RLFFFF/CFFEMESHSVTQAVVQWRDLG SLRPPPPGFKQFSCLSLSSWDYRHTPPH PANFCIFSRDGVSPCWPG*SRTPDLR
5589	13640	C	6405	65	211	MSPNWRWGPPCLATPQGVTPSDTQPCQ ALGLGPHPRNVQPPHISGTG*
5590	13641	A	6406	1	112	GGRGCNQS*SRHCTPAWVTKQGPISDIDI LIRPLTI
5591	13642	A	6407	259	380	GCVQQGVNVQHCAGQQL*ENGGPGSS DCGWHRGHPLCRL

5592	13643	C	6408	5	160	MGFEGGPKILNWKFKKVXQXSXSLXKG QXESIFLNTXKVIRAGDTXKSVLG*
5593	13644	A	6409	117	207	KKTMFRQKLFYKRKQLQKGRPR*GAGF KV
5594	13645	A	641	1	1254	
5595	13646	C	6410	155	394	MLKWIYRIFVNLFLVFVRFFNCSFLCAEC ISLPGQECGGAEVSSFSRTFPQHLLSLYL MXXXXXXXXFLQALGLCYPIQ*
5596	13647	A	6411	68	547	LDNRCERCLTEGGWLTSTHTAPRGKGTW GQKKEPASWGPWGCQW*RGAWPTGC KQGRGGSPSPQLGSGGRHEPGQAKATK ASPSQEGEDKGRPRQGGPSWRKSSPRPI SDPPTPGGDKGPSSTSLRL*TRLEPDLVS LGISAGPTRWTLSSAVQLQ
5597	13648	A	6412	11	321	KNFYLF*DGVSVAQAVQWRDLGSPQ PPPPGLKLLSCLSLPSSWDYGHVPTMPG* FCTFSRDGVSPCWSSWSRNSRISDASACL GLPKCWEFTRRDNSAPRS
5598	13649	A	6413	17	237	YVAQAGLNLASSQSSCLSLPKHWDYE CEPLCLAFFFL*ROGLAMLPRILPPIKSI SIRWRNGQKKMHQVL
5599	13650	A	6414	806	1680	AMGIHCITTRTERSMPTTSAAVLPGPM RQWQLQLPPCIITQSRPCPSCHKSRQPW PVTSPPLSIPTIDTCCRPOELLQQLLQ QPLLLLQLPLHITGGIGAPCVLQPSQ LLERATVTGMRVSCPKLQQPRGILCTW PGMSGSSMPIGRVTATNAKARCRHAAD TALPAASASCVTGTTAACWAAAWASAT TGPSCACCFMPASCSTSLCCWALHCRP CCEPTRPSTWLPSSCFPGSC/CRDHHCL LGRVCVGFNYRPFLL/SSCRR/PSCSTS LCCWALHCRPCCEPTRPSTWLPSSCFPGS CCSQPHCP TTLWSTLTPLSHGRLWLQSQ TLSSPWALWKSRSVSGSLH
5600	13651	B	6415	61	516	MTTLKKNLADDDAVSCLVLGTENKELL VLDPEAFTILAKMSLPSVPVFEVSGQFD VEFRLAAACRNGNIYILRRDSKHPKYCIE LSAQPVGLIRVHKVLVVGSTQDSLHGFT HKGKKLWTVQMPAAILTMNLLEQHSRG LQAVMAGLANGE*
5601	13652	A	6416	360	861	RCGSFLQLLPMPKPADTALPAASASCV GTTTAACWAAAWASATTGPSCACCFMP PASCSTSLCCWALHCRPCCEPTRPSTWL PSSCFPGSCCSQAECLWHSPLWPS*RTA WRVRCCAGLGCSSMGCCCCGARPHGSG LGASTPMTWVPATTCRQPWAPARRLGP
5602	13653	A	6417	2	263	NPRDGPTTAACWAAAWASATTGPSCAC CFMPASCSTSLCCWALHCRPCCEPTRPS TWLPSSCFPGSCCSQ*SPSSCKPLKPPV F
5603	13654	A	6418	18	211	NEPRASTLTSSKAGQRQAPWTLFPNSYP L*EYPPANPFQGGPHDCRAQTKDMAQA APRVPEAGP
5604	13655	A	6419	2	548	NGFRGAHSQCPPACVLPQAMSTGGRRQ LPHPCMNPPSPGDSMDAVIKGAAYDLG GTWKGAKPLGLWHCGG*PIENRAGAGE T*SLHI*TPVRSPGFLGTSPMGSPGALKN HGSCARPLLSPLYPKERPLPPWHLQS EDLPPRGPEALMPQELGLERC*YPLPQV PRFRGTGAGLVQA
5605	13656	B	642	52	554	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAIIVDMVPGKPI*

5606	13657	A	6420	368	623	LVCVFFFFF*ERESCSVTQAGVQWCDLG SLQPPPPRSKQFSCSLVLPSSWDYRHTPPC LANLCLIFKSRNPKYFIFIPFNCYEW
5607	13658	A	6421	42	179	
5608	13659	C	6422	28	219	MQILLKSKPKGSTKXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXFRCHD*
5609	13660	A	6423	2	161	KNLH*MESYSVAQAGVQWHDLSGVQPL PPGFKRFSCFSLSSWDSRLYFRCHD
5610	13661	A	6424	363	750	REQDPACAWSSS/APNSSWSLHGEAVSH RECLSSPVLPGPDSSKALSSAAAALSMSS GRGGGSLVPFSGPVSGVARWIASCVAGE SCLA*AGTRTRCTAPSEAT*SSTRGLSRG AASLAASVHHGSRMSL
5611	13662	A	6425	890	1879	LWGLVTSSCLSFRRNFTTEIFQEDLMLS DPLNLLSLVMWLCTLWTLAALSMSSG RGGGSLVPFSGPVSGVARWIASCVAGES CLA*AGTRTRCTAPSEAT*SSTRGLSRGA ASLAASVHPGSRMSL*VAGKPKGPGPTE AAPSCRSSIITCTPLPTLSHSSSTADRAL KASPGLSLRGPGSSGGELCARLSPSSSGM DTFPCLSPTSSWRRFNNSLLALARPRA ASAKPTALSTRW*ITCRSCSEL*TAKPCP VTVMGVLGGGFPWPVPLPLVSLQA QQQHLASLPPFPMRMVRGAQAPSCR RLPRARGETPPRLPSGSR
5612	13663	A	6426	8	363	AEVQWRNLSSLQPPPPGFK*FLCLSLPRS *DYRLAPPCSANFCMVKTEFHHVGVG LELLASSDPPALASASQSAGITGVSHHA WPRASLLSLVIALKQASFFCSHAKPQVS QHFTN
5613	13664	C	6427	87	287	MIFFSFCVNTWCHSPFCATVTEYHSLIXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5614	13665	C	6428	11	328	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFFSFCVNTWCHSPFC ATVTEYPRLIXXXXXXXXXXXXXXXXXXX XXXXXXWGLFCCIITQRKVEG*
5615	13666	C	6429	76	276	MIFFSFCVNTWCHSPFCATVTEYHRLIXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5616	13667	A	643	36	695	
5617	13668	C	6430	7	324	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFFSFCVNTWCHSPFC APVTEYHRLIXXXXXXXXXXXXXXXXXXX XXXXXXWGLFCCIITQRKVEG*
5618	13669	A	6431	1	336	FFFFFFRQSLVAQAGVQWCDLCSL*SPP PTLSTPLASASQVAGTTGAHH*TGIIFFVF VETVFCHVAQAGLELLGSSDPPASASQS AGITATVPSLL*LFIKKQKQKNRTY
5619	13670	A	6432	3	1105	
5620	13671	B	6433	52	936	MAYLKIQKYEEAEKDCTQAILDGSYSK AFARRGTARTFLGKLNEAKQDFETVLLL EPGNKQAVTELSKIKKELIEKGHWDDVF LDSTQRQNVVKPIDNPPHPGSTKPLKKVI IEETGNLIQTNDVPDSTTAAAPENNPINL ANVIAATGTTSSKNSSQDDLFPSTDP AKVLKIEEVSDTSSLQPQASLKQDVCQS YSEKMPIEIEQKPAQFATTVLPPIPANSFQ LESDFRQLKSSPDMLYQYLKWLSSHCC DNTRAQRLEKAGWQLAFLRYYYHLLDV QKITVCMWQKAF*
5621	13672	A	6434	1	309	LPIPADSFQLESDFRQLKRSPDMLYHD* KQIEPSLYPKLFQKNLDPDVFNQIVKILH DFYH*GKKSPLLIFEILQRLSELKRFDMA VMFMSETEKKIARGII

5622	13673	A	6435	1	936	
5623	13674	A	6436	1	1023	
5624	13675	A	6437	602	744	TPASLKIPVE**NTLLAKMVSIS*PRDLPA SASQSAGITGVSHRARC
5625	13676	A	6438	1447	1931	RKVFKWLSAPLDVSNCPSLCKD*W*RV* RFMPETFFPAR*GAENPTLPCCHYSIN/HFT VFSFLF/IFFFWR*SLTLVPQAGVQWRDL GSLQPLPPGFKRFSCSLSPSSWDYRCLPP CLANFLYF**RQGFTVLARMVSIS*PHDL PASASQSAVFSYLIFFLPY
5626	13677	A	6439	1	74	FWRPVRQSEYKQVNGQDSTFPI*CLQ TNTDYRFRVCA*RRCLDTSQELSGAFSPS AGFVLQRSEVMLTGDMGSLHDSKMNS MMPTDEQIAAIIALGFATLAILFGFI*QSE YKQVNGQDSTFPI
5627	13678	A	644	62	1548	PLKAKMGKEKTHINIVVIGHVDITGKST TTNGHLIYKCGGIDKRTIEKFEKEAAEM GKGSFKYA*VLDKCLKAERERGITDISL WKFEQQVLMWTIIDCPDRTETFIQKHD LQGTSQGLAWFGGPPFWGGSPLIVCCW CLVEFESWYSSKHWRPREHALLGFTVT GVWKQTKLFGVNKNWIST*GHPTAQKK ILKEIVKGKSALTLRKIGYNPDTSILCPIS GLNGDHMPGAQMPNLPWFKEWKVTRK DGNASGTTLEALDCILPPTRPDKPLGL PLQDVYKIGGIGTVPVGRVETGVLPKGM VVTFGPVNVTTEVKSSEMHEALGEAL PGDNVGFNVKNVSVKDVRRGNVAGDS KNDPPMEAAGFPAQVILNHPGOISAGY APVLDCHTAHACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPLGCFAVRDMRQTVAVGVKA VDKKAAGAGKVTKSAQKAQKAK
5628	13679	A	6440	2	174	FFFIFFFLLENLF*PSNFGSYKPVHCCVFF CCCCFFLAVFFVCFCCFFSFSFLFF
5629	13680	A	6441	1	271	PPRFFPEFFYSGPPKPPFFKTPVFLGVKPG VSSSPPYQKKPTNFGPKMGAL*RIPLFET PIWVFPIKGFHKKKPPVLN*PPTRKPPPD KI
5630	13681	A	6442	3	128	FFNKKPPPFGRGWPFLLVPATLRF*G*KIFF PPPPPEVRFP
5631	13682	A	6443	1	154	LVWS*EASKIPGGAEEAHPPTTF
5632	13683	A	6444	2	230	FFFESGSRSVTQAGVQ*HSLGSLQLPPR FK*FSCLSLPSSWDYTHVPTRPANFCIFS GDGVSSCWPGWSRTPNLR
5633	13684	A	6445	70	550	NQVIWESFQAGRHHGHPFAPSLAPSASSF LSSFCPSGKAETLESI*SSGKPGVGEAT SLFPSIS*MFWEGPENGTOEPAGMPIHT PPSCSNPAIHSPGGTGAPGRREALHCPP *HIPSHPPSRPPWLAPLSLRFPTPMAVN DQDRSHVCFPLGLI
5634	13685	A	6446	77	485	NLVYVSSICFTWTFHFERKKFYVSHIVLY KVASPIMKCLYCHSGHTQVVQYLNGEA ARLGQGLLC*NVIIFICLLSLSLFFSFFG PMLKM*NFVK*CFYNFIRKPKFVFFVTL DFNSLYIGTSNVITVLNKFH
5635	13686	A	6447	3	349	KVEDPSPVWRNSIFWKVITFKVYFFCLF VFLETESLSVVQAGVQWHSLSLQLPLPP GFKQFSCSLSS*DYRCTPPRPADFCIFG RDGVSPYWSG*S*TPDLMLCPAWLPKVL
5636	13687	A	6448	1	189	FFF*IGPHSVAQAGVRWCDLGSCSLNLP GSSDPPASASQVAGTTGVHYTQLIFKFF JEMRAP
5637	13688	A	6449	2	304	LDTPLGAAPAAFFPLSLNQCLIYNPMPVR PLKAWRLKTGILTEPRVKGEALGAGMM PTGVSTASSPSYPLAPLGPRLPLQDCMH QALS*APLSDALCIAL

5638	13689	A	645	2281	2431	KLFFLKNVLLLNFFLPLLPSVLCYCCF SFFFLYLCLFFTVVLGSARNK*KLFFLKN VLLLNFFLPLLPSVLCYCCFSFFFLYL LFFTVVLGSARNK
5639	13690	A	6450	21	359	SLLQSPAFFSPAFCGLL*PSVVQSPAFS SLL*PSPAFSSLL*PSLLWPSFSGLL*PSLT FSNLL*SSLLPSTEETPAGORQELQLFPV GGAADAYFPFKCFKLSSECLK
5640	13691	A	6451	2	170	LSLLSS*DYR*APSQLANFSIFL*RWGLA VLPRLVSDSWPQMILLPPVPDVLELKA
5641	13692	A	6452	3	112	
5642	13693	A	6453	4041	4215	
5643	13694	A	6454	3	309	PPPPK*IL*RAPNPPLSSSSFSNPPTWGP QPPPSKFSKFARFPFLPPFPFKKEPPSSSL FFPTKEGTVI*KNPPFSGFQSPDSIK*GRV EPPGGTKRG
5644	13695	A	6455	2	439	RTSAREKRDLNRLKKLGDSSKNSDC*SV SSNTDADATQEKNNATSNRKSSVGVKK NSKSRTLTRQMSRIPASSNSTSSKLTHIN NSRVPKLLKPAKPLLSKIKLRNHCKRL EHKNASRKLEMGNLVLKEPKVVLNKL PHKKR
5645	13696	A	6456	1	146	
5646	13697	A	6457	59	431	PTAMAEEGIAAGGVMDVNTALQEVLT ALIHDGLARGIREAAKALDKYVYQSQYC GFLQPEQNCHPREEGMEFMVLAQKF*M ASVLPET*EK/RQAHLCVLASNCDEPMY VKLVEALCAEHQINLIKVDNKKLGEW VGLL*ILWVLATGTLPPKGRRHGVHGV SAKVLNGIRPTGNLKGAKPIFVCLHPT VMSLCMSSWWRPFVLNTKST
5647	13698	A	6458	242	431	
5648	13699	A	6459	65	473	PTAMVEEGIAAGGVMDVNTALQEVLT ALIHDGLARGIREAAKALDKRQAHLCVL AFNCDEPMYVKLVEALCAEHQINLIKVD DNKKLGEWVGLCKIDREGKPRKVVGCS CVVVKDYGKESQAKDVIEEYFKCKK
5649	13700	A	646	203	371	HTDYIPNGPRTNEPTAHELIG*H**PSHFR T*VEQYNINADLKS*YQHSMRMLSG
5650	13701	A	6460	32	485	HLVLASLLACLASIFLPSVGLGQCCLVGS QKTIPRNEGLPRKQTLSDLLPSCLWFP YSPRLAIKTTIPLHQPKALKPKNITLTF FLSV*NWAIGKLFGLSGL*GOEGPPFQR ESCAI*GRKECCAKRPRKILDRPRWVPH SVYQH
5651	13702	A	6461	3	336	FFFFDIGSCFFA*AGVQWHDHGSLOPP GLK*HDIPTAS*VAGTTGAHHHA*LIF* LSVKMGSSPLVAPGWSMKSWTQANPSL LQPPQSAWDYRCEPPCLVRNTFEYV
5652	13703	A	6462	2	280	VLGIWRVPGSGKMEKRESEKQILPRPIG CIWERGKSPGEAPSALPMPWSNPPPGTC TPSCPTYRCTPLPR*TDAPSRHHLAPRN GETIFA
5653	13704	A	6463	1	171	MWGWKEKIKINTFVYCWWFEKLVQNF WSTTWQHILKF*MSFDALLGIYPKYILT VT
5654	13705	A	6464	21	402	
5655	13706	A	6465	42	266	
5656	13707	A	6466	60	656	RRRLPSVAIMIIYRDLISHDEMFSDIYKI REIADGLCLEVEGKMVSRTGNDIDSLIG GNASAEGPEGEGTESTVITGVDIVMNH LQETCFTKEAYKKYIKDYMKSIKGLLEE QRPERVKPFMTGAAEQIKHILANFKNY QFFIGENMNPDMVALLDYREDGVTPY MIFFKDGLEMEKCVSTRKWVKINNVKK TF

5657	13708	A	6467	176	552	MRSSKQMKPNFPRCSSITVLSVRGMVLF LTLACPRFKMSSRTDFRFGNPQVT*GSTI CSIFRLPSILSMRTTK/DQGMFIWQFQGM RFHF*SSETHLVTFLLPPGIM*E*FQSLKPE PFSFLLSCYCH
5658	13709	A	6468	98	507	RATEKWKGRKNHELSSWKCFPLKIFFRRS LAMVLCTSKLRPSVLSMRTTKARECLSG SSNA*GFTSSRLRHSLSRFCARNHVGMI PVA*T*ALFLSSAPSLPKMPALPGWLCGL DKPSSFSGDFLEPKGFFALAPP
5659	13710	A	6469	204	401	WHEFTGAENHCKTLPKENF*WCLCKSH PSEPKNAAYNRTLCDLGISKEVSLGTSTF EMWTSQGQE
5660	13711	A	647	12	355	LFSSLSGGMQSLSLGQTGISEGLN*LTSM APGNLWHMRNNFLFGSRCWMTRFSAEN IFKSVSFRLLFGVKCHNTDSEPLKNEDLLK NLLTMGVDIDMARKRQPGVFHRMITNE QD
5661	13712	A	6470	249	906	RJHFPRVSGPSQSNPKFAVASRGFFSLSL SAQPDPLPPPLGEALALSLHPVPRRSTET VAGDSSELQLGLRSPQQPLAGLAFARL FLLFPPP*RCKSKPN*NDRRRSSVDSQIHL VGRESAHLPLAGLRVCVSLPLARCFGQV LQGVPLGWIPSPGGS/AGVSGRRREERH MGVVVMRVRVEARVSS*ESKI/SRALR*S THLGLPKCWDYRREPPCPAH
5662	13713	A	6471	401	659	LIDLRFIYLFYLR*GLRLVP*AGVHWCN LGSLQSLPPGFKRFSCLSLSSSWDYRHAP PHPAHFCIFSRDAVSPCWSG*SQTPDLR
5663	13714	A	6472	1271	1538	
5664	13715	A	6473	1	369	ACSSCFHAGLEHVRVRGSGHGVAAAR RSEAPDLFC*PPSLPVPSTPFSPSPAPAMN QATSDPTHTCPTRLPTCPNAAP*AGPTAD TPS*GIPDLPAVVLKTPQHLDPVCSLCG PPLGPTET
5665	13716	A	6474	3	340	ETRSYSVTQAGAEWHDHRS*P*PPGLR *SSHFSLSNWDYRCVPPHSANFLVIFVEI VFHHVAQAGLELLGSSDLPT*ASQSTGIT GVNHCPAEKEVLPREKAMQRGGSQA
5666	13717	A	6475	21	273	GMNERGNITKEIKKIWEY*E*LGTSOLD TLD*TNQKDTNYQNQLTKYRKYGLEPI TSDYISNFKRLPKKSPGLDGFTGEFI
5667	13718	A	6476	2	3204	FGEPTSEQTGTAAGKTIAQTAPVSWKP QDSSEQPQEKLCNPCAMFAAGEIKTPT GEGLLDSPSKTMSIKERLALLKKSGEED WRNRLSRRQEGGKAPASSLHTQEAGRS LIKRVTESRESQMTIEERKQLITVREEA WKTRGRGAANDSTQFTVAGRMVKKGL ASPTAITPVASAICGKTRGTPVSKPLEDI EARPDMQLESCLKDRLETFLRLNNKV GGMHETVLTVTGKSVKEVMKPDDETF AKFY
5668	13719	A	6477	250	5816	
5669	13720	A	6478	553	7399	NFNKKNLSFLGFPRQRKVSSFQKEFSLED KEQLANHERGIDAQLLVALPKVAELRQI FEPKKKEFLEMKRKERIARRLEGIENDTQ PILLQSCTGLVTHRLEEDTPRYMRASDP ASPHIGRSNEEEETSDSSLEKQTRSKYCT ETSGVHGDSPLYGSGTMDTHSLESKAERI ARYKAERRRQLAEKYGLTLDPEADSEYL SRYTKSRKEPDAVEKRGKSDKQESSR DASSLYPGTETMGLRTCAGESKDYALH

5670	13721	A	6479	380	999	AGAKGGGPGGRGMKKTNSLTPLLSAYR LLPVLSKGGWILGFSVCPFAPGLMAKG VSPCDTAVKRDNIH*VGGGVSKCP*RSS *WSGPVPALTALFLVDNHHEVYLWQGW WPIENKITGSARIRWASDRKSAMETVLQ YCKGEAPSNMPAARNRWGSPSGMRSQE TPFPFCACQPASIHKAQVVDENPIFSPL KPFEDVIKFLD
5671	13722	A	648	1134	1633	PNPTGTMLLARKWCPDGLQSLPPDVLGS *GEHLLSCLCQERACSSNSRRPRQAWTG SQGSRVINFFFFAKVGTCHQGPNIHQKAP KAPGTPPTPSYPGTSPRQLLWQWVQPRP ALPASSPCSRHQLYLPRQAMSWLLSPAP SVPLDFSGASPVWATLCFPHRPLPHR
5672	13723	A	6480	78	200	KKGSPFFPKVGGQGGNLGLEPLPKLK KFFCFKPPKRGDYSSSSSSSPSSSKKK GVSPFWPGGV*TPKEGGL
5673	13724	A	6481	179	384	FNSYYMYVYVYVHICVFLYVCICIYRYI YLCIAVITCLMNEW**FKCKGNDARGYE KKLPSKYIEIEKE
5674	13725	A	6482	76	205	RKKPEPEKTCFDNITGNTYPCCLSTYEHDS D*YYVNR*LCAR
5675	13726	A	6483	2	774	HSYSHSHGHCSPAGDTEQGYKPVWPV CSLFPDGSHPGV*QPIHEPA/QGRGGLPP WGAA*TPRAWRLA*RPRG*AALPWA*T SPGRPASAPLAHTGSGCPSRPTAPGSP/ IPIQNIKRPYPGEAFVPSRAGPTVGTRTS FHLAPSLPPFPSS*LSPSLPRTTTSCTRAI LTPSS*QKLLYPPSRPVVLLVRRARPPAA APTSEPPERSPWETPHAAPSQLHELHET HSVAQKSDLLPAPEAM*PGSVSSRFLLY
5676	13727	A	6484	2	732	GRRRPGPKPPRAPGRDRDRCNF*PCCPP GAKSSAACCCSDIRRAARAIPLGNPCSP LSAP*AP*NPLCRTVMGRSPMTLSLGSRT PTSLPAPFPWSPRFG*P*THPRARSLGTL WPMPTTP*QAATPWRR*PPATQASTP HSLRGSSSSSQRLAPLRPTSSRACMAGP TPAAGALGPVTLGVLTPQAWASLRTP GRLLTSLSPRQPLQQRQWQQQPQLQPQ PRPLWQPCRRHRTRI
5677	13728	A	6485	2	338	CTTAIPTPEEMTRLRSMNRQLQINVDCA LTEVDLLQSRGNFDPKAMNIFYDNI*PG PDVPPKPSKKGPTDSEPKTSSGPCSNIGC LLSCKFFHACSRFQNPICIHQSTLAA
5678	13729	A	6486	84	300	RVGARGKMTALASGQLGPLMCQFGLPA *AVEAANKGDVEAFAMQNKPEQI* GDTKDKTD*KEDLSLD
5679	13730	A	6487	91	668	SRAQVVLHCVLREWAGGRSPAPPSPW PVLHVPDPQSWQLSSVALGCSPGWSSAL AWLFLQALGMFSAALASGQLGPLMCQF GLPAEAVEAANKGGKVAAPGTPRPEPG AGSIPVPLDLQKW*GGKGHSPSALDPI ALIPSFGARVRHHLVSLTCS/DVEAFKA MQNNAKPEQKEGDTKDKKDEEEDMSL D
5680	13731	A	6488	1	414	LQPGPAGAAQVVDLA/SVV*PPEIMAPIA NADVQERLLPYLPSESLPQTADENQNT LTLAPSSQALGMFSAALASGQVGA MCQFGLPAEA\VEA\ANKGDVEAFKA MQNNAKPEQKEGDTKDKKDEEEDMSL D
5681	13732	A	6489	205	553	LSRPRHHKASTTGAQMQRTRSMRQEP EKAILTLRGSREPTPRAPQLVPSVPSWL FLSLHSIAQTPLPHTSTHTPRSQPALPSQ APVPVPQHPPHPE*ALSPDNLFMILKSP

5682	13733	A	649	1	370	QRLAEMSNAIERKHATKMTYQPTNGTL TSGYVADRRVKHHS GGEEPFQAQKQEP HPGTSRQ*QTRVNLHSLPDPEMHEQTYF RGMYRKLGGWKAGPEGTfyDIPRYVTA YTFAHTRPADIRAM
5683	13734	A	6490	3	347	SFFFVLRRSLAVAQAEVQ*RNLSLQPPP PEFKRFSCFSLPSGWDYRRPPRPANFLY F**RGVSTMWGQGSRTDPLRGDLAHL GSPKVLGMTGREPPCLGPLNGLTFLPEIS
5684	13735	A	6491	280	406	FFVFLGETGFHRVSQDGLNLLTL*SARLS LPRCWDYRREPPH
5685	13736	A	6492	1665	1787	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5686	13737	A	6493	1431	1553	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5687	13738	A	6494	1740	1862	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5688	13739	A	6495	1173	1295	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5689	13740	A	6496	1027	1149	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5690	13741	A	6497	631	744	VIEHLVSQDGLDFTS*SARLGLPKCWD YRREPPRPVH
5691	13742	A	6498	166	352	IFFVFLVETGFHHVSQDGLDLLTS*STRL GLPKCWDYRREPPRPAPSSPIHTVAPIQ YTHP
5692	13743	A	6499	2250	2372	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5693	13744	A	65	1586	1775	
5694	13745	A	650	1	222	
5695	13746	A	6500	150	368	EKELAFFPQGEMQGGNGL*LKPPPLR*R DFSCALPRGGNGRGAPSPTNFGFLGG NGVYPSGPGGFETPDLK
5696	13747	B	6501	174	350	MDEKTKKAEEMALSLTRAVAGGDEQV AMKCAIWLAEQRVPLSVQLKPEVSPTQD IRFLM*
5697	13748	A	6502	1	498	EFRAPGPLGPRTRRPARRVAGSGGPG*G TIFPAPPPSAPLPGPLSLSPPKPLPLRR TGASREERGLCLETDRDARGAPASGGPPG LGTPRLGGVRASFPRFFPRLVPFPAPPS ADLSRRPLPSHRPTQDPGLVIGQCDASRL PRGQRGTHRAWAAPEATRPG
5698	13749	A	6503	919	1761	RAFSFNREEPTADEQGLPTS VAGRPAVIA AVPSWHARGTERRAPGRD*HHPHPLG AQPSAALLPGL*HCGHISAGGRREAGNI PGRKIIYPPPPQGFYGSNNGHQAYIKLSD A/RSLTR*IQSSMTSCRVL R*GPSLPSAGS SPGLGMSCLTSGTSCGYMTSSWPPTDA DLLCSRDCVVS RAGSPGL*L*HGLGPPPV /SPRSLRTCMPRH*SAEQETFLFSFPHPL LGRPLNSKLRGRQPLLSKTL SWHQPSR GLIWCCSGSGDFCGLKIEQKMS
5699	13750	A	6504	131	575	VFALKPGTPGALPQVGVLRLDERPGWV VSGRPFPAASHLGLVPFPAPKCGTLSRR PLPSHRPTQDPGLVTGQL*CFPTAAGTAT AHTGLGPRRKPHRPWLSCSWSPRLFPGD PEVSIFPRKARSPPGEWGTATPDGREDQE SRGNP
5700	13751	A	6505	2	291	HEPQLNSNNVALHGAVIPGPPFLFGACIN LMNFMVALFIEYKIARGVQKHTYKH GSLTNT*RGSEDEIEPLLRDSTIWELFSF EPPGNQCP
5701	13752	A	6506	1	267	PRFKLFPCLSLSS*D YR*VPAITPG*FLY FF*VKTFHHVGTGLELLTSGDPPTSAS QSAGITGMSHCTWPISFLYLWHTGKKEC

5702	13753	A	6507	1	216	HEWMGTRVGEWMDEWKEGWKMDGK VDK*MNGWMEGCLYQWLNTEILCQELI PYTCLCLFSGWIYIFKQSILD
5703	13754	A	6508	74	356	
5704	13755	A	6509	2	375	RHEVKPQWTPG*DTDHLPNLSVALGPTR QPGRRQRPEGTQVPSIPASSIPASQSQPPQ SQPPNPSSLHPRTPTPSLPASPASPKT QTL*IPASEVGTVSNPPTWTRKLGPEAN RLSLMV
5705	13756	A	651	3	556	LPTEVAAISFSLAIGKHSATVFWSPWAGKP PSRILPHLGPLLPQKASWPPLRPLVKPKF VKKRPKKFIRHQSDRYVKIKRNWRKPR GIDNRVRRRFKQILMPNIGYGSNKKVTK HMLPSGFRKFLVHNVKEQGLEVLLMCN KSYCAEIAHNVSSKNRKAIVERAAQLAI RVTNPNARLRSEENE
5706	13757	A	6510	3	148	HERREVTVIRGGKHQLRLVPTRWAGK GLLG*SICFWSFSLGHHWSVC
5707	13758	A	6511	50	255	LSMVSTVLVTTIMKLCYSY*K*QIQSWLPC LTHTKTHTHTHTHTHKVLHTLTCKQ YYAIIIGNVLSFY
5708	13759	A	6512	268	355	
5709	13760	A	6513	2	206	
5710	13761	A	6514	1	317	FFFFFFPLFRQCLTSPRLEYSGTISAHCS LSQPGSSDPPTSALRVAETTGRHHAWLI FVF*VETGLHHVVLAGELELMGSRNQPTS ASQSAGITGVNHRAWLTW
5711	13762	A	6515	2	210	KEKIFPSPGFKHPPPPPF*KTPLKGKRIFFS PPRKNWPPQRIFFKAPPSSSSSSSSSSSA QI*SFNSP
5712	13763	A	6516	674	985	WFFFWLCHPGWSAVAWWHDLSLQPPP PRLM*FSCLSLLSNWDYRRAPPLASVVF LVDTAFRHLGQAGLELLTSSDPPTLASQS AGITGVSHRTQLRSSFDS
5713	13764	A	6517	2	336	
5714	13765	A	6518	3	260	CLGLLVIFVCNFSIRDYRRPPLH*LIFV FLVEMGFYYVG*AGLELLTS*SARLLAS LRAGITGVSHRARPRSFVFGFGWQDHG
5715	13766	C	6519	38	478	
5716	13767	A	652	2	395	
5717	13768	C	6520	33	317	MLTNHLHHWPFFKNXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXTRCPRIITFFLRG*
5718	13769	A	6521	1	253	RRLFFFFLRWSFALVAQAREQWCNLG*L QPPSPGFKQFFCFSLLSNWDYRRAPSCPA NFVFLVEMGLYIFKEWDNDGRMICEAF
5719	13770	A	6522	2	411	GVLRLSSACQACPSSTSTGP*AALAGFT TTGSLCWAUTPPSSSFVSGSSREAPSGT ATTSWTRNVTATSATTANRMAMCTSTR TARLLLAPTNCSPRSKLTLPIDPCSGGC RLTCKDNTPLRGTGQGRROGTF
5720	13771	A	6523	2	222	THIGLPKC*DYKCEPPVHRQFL*F*VETR FHHISQAGFKLTTSQDPPALASQSGRITG VTRTQPLNGFYKVM
5721	13772	A	6524	2	261	VVVVSQYAAERPSVVAHACNPSTLGG GRWLT*GQQVETSLASGYLPTLASPKCW DYRREPLRLACFNFFVETRNLTLVLPISV QQ
5722	13773	C	6525	203	355	MVALSTRGQVHLSGAVVPSSFLIFLIAPS GEQEVDIAMVAGYAVTSVVL*

5723	13774	A	6526	2	671	GVGGVGRGMLPPAPPRAPAGFPSTILW PSPPLL*LPPPGGLGTGFLPFGHGCPPLSQS PWILFPWGGAQAQPL*P*PRHPCPPHPR QSYGRQLPTFWLAPPSFCLSLVFSSLSLIL SLSSVSRSVLLP*HPPPHISFHPLGFLS*AS PISGVGGIKAFPLPLRFQPPF*PLIPTTPLSL PKMGALWGRL*HSTPAQAMGSRAPFSG LAQASTYLLQPFQVVGVS
5724	13775	A	6527	3	477	AGKFPLRSGHFPCFLTVESVCSGPFKPSV IPLSPCGASAPSPRFLSPSPGLVRVAVLHC TLLVAS*APPPASPPGVAVFSPPVSIWHP RLPGSYGLCGQHRLDPTKPRSRTHFRAG VPPLVSCSLPSPNLPLMTSGVQRPPKGLE NSLLQLADLNK
5725	13776	A	6528	1	381	
5726	13777	A	6529	1	2654	MSFFSTLKTALSKEKLAATGVLVLICAL VGAGFAWERHQLKQAEIKIGSLDQAVK ERDKSIMDLNQTETMKNKAEQHFHSQEV KNESEQAKYADRQMERKAEVQKQLVA AGNVRQRIPADTQRLRESISEFNADAD KGIFMSDKVTVKQTINKATSIYKIEQITV GKPGSEQYRRAFELADQLGLKHPDCIEH VFPTYADEQCTHVLTEEDFFSTEEREGV DRCIGVICSSVSDELFPNVPEYGGIGYQF LYEGDELKCYEHDIESKAKELTVNSNNT VQPVALMRLGVFVFPKPSKSGESKEIDA TKAFSQLEIAKAEGYDDIKITGPRLDMDT DFKTWIGVIYAFSKYGLSSNTIQLSFQEF AKACGFPSKRLDAKLRLTHESLGRLRN KGIAFKRGKDAKGGYQTGLLKSWRADS KLWELFQLDYRVLLQHHALRALPKKEA AQAIYTFIESLPQNPLPLSFARIRERLALQ SAVGEQNRIKKAIEQLKTIGYLDCSIEKK GRESFVIHTYLIPAIPPQHIIQCDPFLSHIL DFYSPSSTHRSCRASRSHQIESEAWLPIE AGNHQNDSGYNLNVEEIRVLYAWRMPK HVVTHLAKDQLHKVAQRANRMLNVLT EQVQLQKDELHANEFYQVYAKAALAKL PLLTRANVDYANIIDIYEHARGVPKYRDR YSERGVSKTVSTVSLAHAMRAHPHLLM EDLRILVIDLDPQSSATMFLSHKHSIGIVN ATSAQAMLQNVSRREELLEEFIVPSVVP VDVMPASIDDAFIASDWRELCNEHLPQG NIHAVLKENVIDKLKSDYDFILVDSGPHL DAFLKNALASANILFTPLPATVDFHSSL KYVARLPVL/KLISDEGCECQLATNIEK QTNNWANP
5727	13778	A	653	1	1055	TDCRVDPRVRPRVRVEHSIVGTRLVSCQ LQPSQPNADQGKLTTMRIAVICFCLLGIT CAIPVKQAESGSSEEKQLYNKYPA\VA TWNPDPS/QVRQNLLGPTGPFPSKVQR KGHGPHGMIWDGWKVDDDFC/VDSQDS IGLGTLLDDVDDTD\DSHQSDSHHSDS DELVP\DFPTDLPATEVFTPVVPTVDTYD GRGDSVVYGLRSKSKKFRPDIQYPDAT DEDITSHMESEELNGAYKAIPVAQDLNA PSDWDSRGKDSYETSQLDDQSAETHSH KQSRLYKRKANDESNEHSDVIDSQELSK VSREFHSHEFHSHEDMLVDPKSKEEDK HLKFRISHELDSASSEVN
5728	13779	A	6530	1	945	

5729	13780	A	6531	146	4368	LGFLRLSEMPRKQGDYRT/SDMEIRGR VEQRVGYTIEQINHMIRDVFGTRLRRAED VFPPVIGVAAHKGGVYKTSVSVHLAQD LALKGLRVLLVEGNPDQGTASMYHGW VPDLHHHAEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELMGKFDEG KLPTDPHLMRLAIETVAHDYDVVIDSA PNLGIGTINVCAADVIVPTPAELFDYT SALQFFDMLRDLLKNVDLKGFEPPDLAI LF
5730	13781	A	6532	820	2011	TTTLVRLPCRSPKRRIKALRSQRLGLPM MRVPSFRLRVTSPTFMKSLTWQVHLLVL MLLVMFWTCNPSVCTASYVAAMCWW QAPMAPAKPQPSRWKTSKARMYQSQK VAKTSTLTVLSELLITVPAAYFTRLLMLL LPLMRVPSFRLRVTSPTSMKSLTWQVHL LVLMLLVMFWTCNPSVCTASYVAAMC WWQAPMAPAKPQPSRWKTSKARMYQS EKVAITSTLTVLSELLITVPAAYFTRLLM LLLPLMRVPSFRLRVTSPTSMKSLTWQV HLLVLMMLLVMFWTCNPSVCTASYVAA MCWWQAPMAPAKPQPSRWKTSKARM YQSEKVALTSTLTVLSELLITVPAAYFTR LLMLLVSKSL/CTCSLNYNIGQIALSFSKA PDKGTEIAIERGANGDVLDMQSVGVYSQ LRRRYVLVASSDGTSTATFKMEDFEGQ NVPIRKGRTNIVSRIKSVVDNGSGSLLH SFTNAAGEQITVTCSLNYNIGQIALSFSK APDKGTEIAIERATDDACTFIPVTRDQSDI YEVFNVAGSSFGSYAAGDVLDMQSVGV YSQLRRRYVLVASSDGTSTATFKMEDF EGQNVPIPKGRKNIVNRIKSVVDNGSG SLLHSFTNAATADACTFIPVTRDQSDIY EVFNVAGSSFGSYAAGDVLDMQSVGVY SQLRRRYVLVASSDGTSTATFKMEDFE GQNVPIRKGRNNIVNRIKSVVDNGSGS LLHSFTNAATADACTFIPVTRDQSDIYE VFNVAGSSFGSYAAGDVLDMQSVGVYS QLRRRYVLVASSDGTSTATFKMEDFEG QNVPIRKGRTNIVNRIKSVVDNGSGSLL HSFTNAAGEQITVTCSLNYNIGQIALSFS KAPDKGTEIAIERGSST
5731	13782	A	6533	1	3039	MLNVLTEQVQLQKDELHANEFYQVYAK AALAKLPLLTRANVDYAVSEMEEKGYV FDKRPAGSSMKYAMSIQNIIDIYEHRGVP KYRDRYSEAYVIFISNLKGGVSKTVSTVS LAHAMRAHPHLLMEDLRILVIDLDPQSS ATMFLSHKHSIGIVNATSAQAMLQNVSR EELLEEFIVPSVVPBGVDVMPASIADDAFI ASDWK/ELCNEHLP/LVKLISDEGCECQL ATNIGFMSKLSNKADHKYCHSLAKEVF GG
5732	13783	A	6534	1	2607	
5733	13784	A	6535	1	4557	
5734	13785	A	6536	3	2847	ELHAYAMSIQNIIDIYEHRGVPKYRDRAL AHAMRAHPHLLMEDLRILVIDLDPQSSA TMFLSHKHSIGIVNATSAQAMLQNVSR ELLEEFIVPSVVPBGVDVMPASIDDAFIAS DWRELCNEHLPQGNIAVLKENVIDKLK SDYDFILVDSGPHLDAFLKNALASANILF TPLPATVDFHSSLYVARLHELVKLISN EGCECQLATTIGFMSKLSNKADHKYCHS LAKEVFGDMLDVFLPRLDGFERCGES
5735	13786	A	6537	1	4236	
5736	13787	A	6538	65	316	
5737	13788	A	6539	54	265	

5738	13789	A	654	2	1103	PGRPTRPPTRPGGGRAQHRLYQTLQAS CSLLSQTPTRGKLTMMRIA VICFCLLGITC AIPFKQADSGSSEEKHFVYNKYPDVAVAT WLKP*PIFRRQNLLGPTWLCPLKETNGL *TRRTLKLRNNGKAMDHMDDMG*WK VDGWTMWDSQDSIDS\NDSDDDVDDTD DSHQSDSHHS\DESDLVTFSTDLPAT EVFTPVVPTVDTYDGRGDSVVYGLRSKS K\KFRRPDIKYPDATDEEDITSHMESEELN GAYKAIPVAQDLNAPSDWDSRGKDSYE TSQLDDQSAETHSHKQSRLYKRKANDES NEHSDVIDSQELSKVSREFHSHEFHSHED MLVVDPKSKEEDKHLKFRISHELDASS EVN
5739	13790	A	6540	2034	2174	EMPGHARCYADQQR YRFLPGSEVLP/ASI NVAWRPVDNLNTCSTRSPE
5740	13791	A	6541	33	285	
5741	13792	A	6542	1	2448	
5742	13793	A	6543	1	2979	
5743	13794	A	6544	1	3276	
5744	13795	A	6545	1	67	MTKCSHLCNNYLF SWLRDNGILIATGER RNVKQEQYISRGYFTLKETVIDTSNGSRI SFTTRITGKGQQWLMKRLLDADVVRTTS IVMLAKVTLSCITMSDFTSGYELACFV THSGLRSAGHILSQCANLAATTSEYFIH KPHRLITAETGYSQSTVVRAFREAVNKG ILSVEIVIGDHRERRANLYRFTPSFLAFAQ QAKNALIESKLIKISSAATKVAVLAKTL ALFNFLSTPPCQNDTPSPCQDDVAIKNK KSQVKKTKRSVSGGAGTSLKKLTSWIA KAKAKADNLRSLSKKRTQKHEFKQKVEA AARKYAYLKNKRSPDIGGISNFDNLPHC MTVNEALNAVLAKNKDNEQWGA VAGA YIADITDGEDRARHFGLMSACFGVGS GV YMQTRYRGKLV SQGFVVQMILTPRDAD GTFITSTDSETVHYHYGPKDLVTILFYIFI TIILHAVVQEYILDKISKRLHLSKVKHSK FNESGQLVVFHFTSVIWC FYVVVTPQA LTRVLNCLLALG SNAAVMGECEGFAQLQ QTWASALADYAAAHSMPRPEILASCH QTLNCLIESTRNSMDATNK/ADAGICRS RDDRER*RCYASAFIPRDDPACSVGGSY R*CVITEF
5745	13796	A	6546	1	3435	
5746	13797	B	6547	9377	1600	MSDWSRV TGMKVHASAVAAPN*TGRII ARNKGRRITPSETLIISAATDSSIALLVAS MLLRVDSLIAISVPLSGALENDRAI
5747	13798	A	6548	3	127	LFHPCQDSQQHH*CVCCRLTGHGAA*V HGPCQAVQTYRASH
5748	13799	A	6549	2	323	
5749	13800	A	655	3	267	TINPKLLKNHARGTPEVPNQKHHWSPKQ KPLLTKNPKNLPRWPVPIPPFEEKPR KFP*TPKRRIP*TKIGPLPSNPGYPTKPPF
5750	13801	A	6550	2	94	
5751	13802	A	6551	171	632	
5752	13803	A	6552	3	325	
5753	13804	A	6553	2	171	

5754	13805	B	6554	104	1164	MCDEDETTALVCDNGSGLVKAGFAGDD APRAVFPSIVGRPRHQGMVGMGQKDS YVGDEAQSKRGILTLKYPIEHGHTNWDD MEKIWHHTFYNELRVAPEEHPTLLTEAP LNPKANREKMTQIMFETFNVPAMYVAI QAVLSLYASGRTTGIVLDSGDGVTHNVP IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATGRHPSILPWKRATSCQTGOV ITIGNERFRCPETFFQPSFIGMEVGGHFR PPYNSIMKCDIDIOEGPCMPTNVMFGGH PRLYPWEFADPHARKRFTGAGTPGTHEE SKDKDSFAPRRSGKILG*
5755	13806	A	6555	1	308	LRPWC/GHLRT*AQYHTLRAARLDNFA IA*MEAKATDGPFPFE/VRGFPTIYFSPA NNRLHPRTSEGGRDLSDFISYLHVEATNP PVIQEV*PKKKKKKAQEDL
5756	13807	A	6556	2	589	AIRTAKEKFVMQEEFSRDGKALERFLQ DYFDGNLKYRLKSEPIPESNDGPVKVVV AENFDEIVNNENKDVLEFYAPWCGHCK NLEPKYKELGEKLSKDPNIVIAKMDAT ANNVHSPYEVGRGFPSHILLSKPNKKLNP KKYEGGRELR*FLLAIYQREATKPPPIQ V*FIPKYRRRRHQEDLLKPVAQTPTL
5757	13808	A	6557	1	129	
5758	13809	A	6558	23	115	
5759	13810	A	6559	1	1582	GRGWRAVLGWSRRRSGLEPATVGSMA LLFLLPLVMHGVSRAEMGTADLGPSSVP TPTNVITIESYNMNPVYWEYQIMPQVPV FTVEVKNYGVKNSEWIDACINISHHYCNI SDHVGDPNSNLWVRVKARVGQKESAYA KSEEFACRDKIGPPKLDIRKEEKQIMI DIFHPSVFNNGDEQEVDYDPETTCYIRV YNVYVRMNGSEIQYKILTQKEDDCDEIQ CQLAIPVSSLNSQYCVSAEGVLHVWGV TEKSKEVCITIFNSSIKGSLWIPVVAALL FLVLSLVFICFYIKKINPLKEKSILPKSL VVRSATLETKPESKYVSLITSYQPSLEK EVCCEPLSPATVPGMHTEDNPGKVEHT EELSSITEVVTEENIPDVVPGSHLTPIER ESSSPLSSNQSEPGSIALNSYHSRNCSES HSRNGFDTDSSCLESHSLSDSEFPNNK GEIKTEGQELITVIKSPPSFCYDKP/HVL VDLLVDDSGKESLIGYRPTVEDSQRNFH EISLCTQL
5760	13811	B	656	197	404	EQQLQAQHLSHGHGPPVPLTPHPSGLQ PPGIPPLGGSAGLLALSSALSGQSHLAIK DDKKHHDAEHRX*
5761	13812	A	6560	69	523	PLGCASSQISASRNTLCTTASSCCPQVL AHSKAAEYMTRWKVQMPHSQDRAL QSVFCAPFHS**LVALPTGHR*MTPAQFS ECFQATSGGSD*DPFLAPSFLVPGLPVAP GLLLPLGPVHSRATMEEGQATHEELTVFI GLRPGVVRGS
5762	13813	A	6561	101	1469	RTHPTFPHPGTGPTSAPPSGALEGTAGTI TSNEWSSPTSPEGSTASGGSQALDKPIDN DGEVWSPDIEQSFQEALAIYPPCGRRKI ILSDEGKMYGRNELIARYIKLRTGKTRTR KQVSSHQVLARRKAREIQAKLKDQAAK DKALQSMAMSSAQIISATAFHSSMRLA RGPGRPAVSGFWQGALPGAETSHDVK PFSQQTAVQPPLPLPGFESPAGPAPSPS APPAPPWQGR/SVASSKLWMLFSAFLE QQQDPDTYNKHLFVHIGQSSPSYLRPYL EAVDIRQIYDKFPEKKGGLKDLFERGPS NAFFLVKFWADLNTNIEDEGSSFYGVSS QYESPENMIITCSTKVCSFGKQVVEKJET EYARYENGHYSYRIHRSPLCEYMINFIHK LKHLPEKYMNSVLENFTILQVVTNRDT

						QETLLCIAVFEVSASEHGAQHIIYRLV KE
5763	13814	A	6562	1	1290	
5764	13815	A	6563	604	1047	SNNRTDNPTSVAYLSKETDVVAKGWPH CLWVVAVAILVLEAIKIIQKDKFTVWT SHDVNGILGAKGNSWLSDKRLLRYQAL LLEGVPLQIHTCVALNPAIFLPEDGEPIKH DYQQIVAQTYVT*EDLLEVPLANPDLNL YTNGSSFV
5765	13816	A	6564	1	1410	
5766	13817	A	6565	510	755	
5767	13818	A	6566	59	411	SWPSDKQTLVVQRGQKMEQANHPDPTD HMSQLMWT/VLPQGFRDSPHLFGQALA QDLGHFSSPGTLVLQYVDDLLLATSEA SCQQATLALLNFLANQGYK/LSRKAQL CLQQVKYLCL
5768	13819	A	6567	1	565	
5769	13820	A	6568	126	492	CNNSMTSLQVRLKVCPRPCRTSM/LPIRII *KLPQVCLDLL*IREGEWDMYPCWAKFP CPYSLKGT*PIAWGILWSFGDFAY/IPLM QQQKH*FSSQNTRRNEEGQI*WPLLMHS QKPAPLPVV
5770	13821	A	6569	1	342	
5771	13822	A	657	2	651	LSRVLEFEFQFLQAQYHSLKLECEILAS EKTEMHRHYVMYYEMSYGLNIEMHKQ TEIAKRLNTICAQVIPFLSQEHQQQVAQA VERAIQVTMAELNIIIGVRGLPGLPPTQQ QLQAQHLSHGHGPPVPLTPYPSGLQPPG\ IPPLGG\SAGLLALT\SALDGQSHLAIKDD KKHHDA*HHRGDRPGKPD*DFVLILLQC CKVVCIAKESPNLYREQT
5772	13823	A	6570	55	219	LGKNKHLGSDPRGSWVTGEYIFLRPIIA A*GRQ*DFLPPELWWTSLNNSWAFS
5773	13824	A	6571	339	1371	ASHPLRGLLCGPSLPNEPCPLLHGTQSHR PLKG*GVRAHSTGLAGSSTCRPLRDPLG EASWAPESAQGL*IHQSALCI*LKLKPAG QRAKLGDRLDIPDRRKSSTILGRAGDLQ PAMPEPPTLSVGSCAAQASPMNPAPCST APSPIDHSRAEECGRIARDWQAAPPAGP CGIHWVKPAGLLSLRDCKYTNRHSVSS SRFANTNQHPASSSGFVNAPIDTLYLANL VGTWRTFVASSGIVNAPISTLSKQTTWL YQSAGCGKESTQASGAQTGGTSFKSLET TGSISEASSAKHCTELFSRFTTFNPDSVPS DGVVGDAGTVWPGVLKGEPCHLGTCTY RCVLDPHPTPSESDTIQGIHVQVCYMSTL HDADVCDTNDPVTHNTKKYTYSTEIFTS NNPELRSEDETVFRALEKWKTSSEQTIGE MDFYICNDPHPDSALYQNGLSKMQDTV SLSVFSPSVAA
5774	13825	A	6572	749	1002	QLKKGTSNLLVSKPSPVWIPTGTLTQIMG TGVANIC*PVF*KD*GELGKMNYAMMS TITQGKEENPAFLKWLWEALRKYTPLSP
5775	13826	A	6573	1	1632	
5776	13827	A	6574	307	543	

5777	13828	A	6575	1	1149	
5778	13829	A	6576	119	409	GDICHHLGLTPVGSHSLSCSR*QVA*VG AVTAATIGTGILLQQLAFLVCNWLLSG SSENFPRSALICFKSEREKGTICQVGPNSP PPTACKGHN
5779	13830	A	6577	1	2433	
5780	13831	B	6578	97	1065	MHAVHTSLLVERTILTTTKERGSTLQYPL RPGAHKGLQDIVKRFKQAALIRKCSSPC NTPILGVQKPNGQWRLVQDLRLINEAVI PLYPVVPNPYNLLSQIPEAEWFTVLDLK DAFFCIPLHSDSQFLFAFEDPTDHTSOLT WTVLPPGFRDSPPLFGQALAQDLGHFSS PGTLVLQYVDDLLATSSEASCQQTALD LLNFLANQGYKTHSRSDAPVGFTDRHL VATEKIPRGREPLSSLA VYTRGRPTRTGA RRTIVSRIRDRFFRYRYLAQREPLYQQ SLLIHLQLDSQPALS VVIGKVPNVVELTP NFGTAAQV*
5781	13832	A	6579	1	2403	
5782	13833	A	658	455	1033	GLYFGKVGEVIEQVKAFDELKALIAFFPL SSLSFLAPFVCLLNLLFCFRLPLLSCLFSP GCRLHRHHCHHYLLLLLFLSHHHHQQ QQQLQAQHL SHGHGPPVPLTPHPSGLQP PGIPPLGGSAGLLALSSALSGQSHLAIKD DKKHDAEHHRGERPGKPD*DFVLILLQ CCKVVCIAKESPNLYREQTMR
5783	13834	A	6580	1	2838	
5784	13835	A	6581	1908	4698	SNDRTEDDCGKHPFMSSPPTEPWVCLII EGQEIDFLLDTGTTFSVLIPCLGRLLSSRV TIQILGQPVTRYFSHLLSCNWETLLFSH AFLVMPESPTPLLGRDILAKAGAHSMKT GNKLPICCPLEGINPEVWALEGQFGRA KNAHPLQIRLKDPI SFYQRYPLRPEAH KGLQDIVKHLKAQDSVRKCSSPCNTPI GVQKLNSQWRLVQDLRLINEAVIPLYPV VRNPYTLLSQVPEAEWFTVLDLKD
5785	13836	A	6582	1529	2945	
5786	13837	A	6583	3	154	
5787	13838	A	6584	3	425	
5788	13839	A	6585	3	223	
5789	13840	A	6586	3	330	
5790	13841	A	6587	50	1740	RSPHCCLTAHLMASAA RLTMWEEVT CPICLDPFVEPVSI ECGHSFCQECISQVGK GGGSVCAVCRQRFLKNLRPNRQLANM VNNLKEISQEAREGTQGERCAVHGERLH LFCEKD GKALCWVCAQSRKHRDHAMV PLEEAAQEYQVRPKRHLEKLQVALGELR RKQELAEKLEVEIAIKRADWKKT VETQK SRIHAEFVQQKNFLVEEQRLQLELEKD EREQLRILGEKEAKLAQSQALQELISEL DRRCHSSALELLQEVII VLERSESWNLKD LDITSPELRSVCHVPGKKMLRTCAVHIT LDPDTANPWLILSEDRRQVRLGDTQQSIP GNEERFDSYPMVLGAQH FHSKGHYWEV DVTGKEAWDLGVCRDSVRRKGHFLSS KSGFWTIWLWNKQKYEAGTYPQTPSHL QVLPCQVGIFLDYEAGMV SFYNITD\HGS LIYSFSECAFTGPLRPFFSPGINDGGKNT APSNPLVPLNIGSQGSTDY WMAFSGTLP LSPHWAPASSATKPWPLFPHGTLEPPLSS AEASRD PQASFSREVTSPINIPADGVV
5791	13842	A	6588	2	472	
5792	13843	A	6589	1	239	QCCSGGTHGNPAIGDR\ MQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
5793	13844	C	659	178	360	MERPERKIXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

					YYSFKNLI*
5794	13845	A	6590	1	834
5795	13846	A	6591	1	702
5796	13847	A	6592	1	1623
5797	13848	A	6593	1	1132
					MEEIEIAALVIDNGSGMCKAGFAGDDAP RAVFPSIVGRPRHQGVMMVGMGQKDSYV GDEAQSKRGILTLKYPIEHGIVTNWDDM EKIWHHTFYNELRVAPEEHPVLLTEAPL NPKANREKMTQIMFETFTNPAMYVAIQ AVLSLYASGRTTGIVMDSGDGVTHTVPI YEGYALPHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIKEKLCYVALD FEQEMATAASSSSLEKSYELPDGQVITIG NERFRCPEALFQPSFLGMESCGIHETTFN SIMKCDVDIRKDLYANTVLSGGTTMYPG IADK\MQKEITALGP\STMKIKIIPPERKY SVWIGGSILASLSTF\QQMWISKQEYDES GPSIVHR\KCF
5798	13849	B	6594	635	646
					MCDEDETTALVCDNGSGLVKAGFAGDD APRAVFPSIVGRPRHQGVMMVGMGQKDS YVGDEAQSKRGILTLKYPIEHGIITNWDD MEKIWHHTFYNELRVAPEEHPTLLTEAP LNPKANREKMTQIMFETFTNPAMYVAIQ QAVLSLYASGRTTGIVLDSGDGVTHNVP IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATAASSSSLEKSYELPDGAGHH HRQRALPLPGDPSFIGMEVGGHFTRPY NSIMKCDIDIQEGPFMPPTTFMSGGTHDVP WESLTACRKEITRAGTPAPMEDQDSFAP AGAQNTRVWIGGSILASLSTFQQMWITK QEYDEAGPSIVQPQMLLDTLHLQARDFS RTTNLLNGGGG*
5799	13850	A	6595	1	1284
					MGDTPRQFGGARPRSGGALRGCRSRGG GNRRGLCLSRALANGDRRLTMDDDDIAA LVVDNGSGMCKAGFAGDDAPRAVFPSI VGRPRHQGVMMVGMGQKDSYVGD\K\AQ SKRGILTLKYRIEHGIVTNWEDMEEIWL HTFYSELHVAPEEHPLLLTEASLNPKAN HEKVNQIMFETFTNPAMYVAIQALLSLY ASGRTTGIVMDSGDGVTHTVPIYGG\YA LPHILHLDLAGPDLTDHLMKILTERGYS FTTAKREIVHDIEENLCYVALDFEQEM AMVASNPLEKS*ELPDGQVITIGNERF RCPEALFQPSFLGMESCGIHETTFNSIM K\CDVDIRKDLYANTVLSGRTPPCTLGIA DRMQKEITALAPSTMKMKIIPPERKYS VWIGGSILASLSTF\QQ\WISKQEYDESGP SIVHRKCF
5800	13851	A	6596	1	370
					ETESRSVAQAGVQWHNLGSLQSPSPGFK RFSCLSLPSNWDYRHPPSCPANFCIFVET RFHHVQGAGLKLLTSGDPPTLAS*IAGIT GMSHCAWPSLHIWTL\LLFAKCPRRWTG QVLLAAIFSQ
5801	13852	A	6597	2408	2810
					IHTHTHTHTHTIFFLKR\SFALVAQARVQ WRDLCSLKPPEFKQFSCLSLPS*DYR CPPPCPANF/SFFFVFLVETGFHHVQGAG LKLLTSSDSPTLASQ\NAGVTGMSHCAWP QSNKYYQN\NFTMIQEQQQKE
5802	13853	A	66	275	577
					GGWITRSGVQDQSGQHSVDVSL/LKKYK KLTKYGGVLL*SQLS/RRLRQDNHMPG GRSCS*PRQHHCTPAWVTVRDSISKKKK KKNNKKKEKKKGKKALLEPG
5803	13854	A	660	365	800
					INVNFLEFYMTDITCFLFSYLSTLMSPIYL DVLLLSLLFLFHIAGMHILTFINHDI*VV HSFYLR\I*HAMEITVYEFICLRIRYPFKAS KIFSMYNATVLFHI*CDR*LGS*IGILERS

						VGVC SVMCIVYIRYVISSSDAP
5804	13855	A	6600	111	426	RIYKDRAGSPAHSQCQRDPLRTSPRGPH SLPWGQ\AAQSDAETEATHMGAPSC LGP AQLPLEPGGRGSHTTSVDSRHDSVEGFR DSRQTESPWNDEN*NLLDYGSL
5805	13856	A	6601	1	2219	
5806	13857	A	6602	1	221	
5807	13858	A	6603	2	217	
5808	13859	A	6604	101	456	
5809	13860	A	6605	62	558	
5810	13861	A	6606	2	178	
5811	13862	A	6607	1	194	
5812	13863	A	6608	59	132	
5813	13864	A	6609	3	104	
5814	13865	A	661	2	58	
5815	13866	A	6610	2	620	GFRPGDPRVRETGVLKPGMLVTFAPVN VTGGVKSVMHHEALSEALPGDNVGFN VKNVSVKDVRRGNVAGDSKNDPPMEA AGFTAQVILNHPGQISAGYAPVLDCHTA HIACKFAELKEKIDRRSGKKLEDGPKFL KSGDAAIVDMVPAARPMCYESFSDYPL GRFAVRDMRQIVA\GVVIKAGDKKAAG AGKVTKSAQKAQKAK
5816	13867	A	6611	293	384	
5817	13868	A	6612	39	543	QVAMGNLSGLRLAAGSCFRLCERDVSSS QRLTRSSDWKG\INGFC\TKPTGKVP GAP IPALTNRVPFNTKPTDW\QKKRPLIWSRS PSKMEDEIPQ\SLSPLEDALNACQRTKMP SERSSLSQWICPDGGMDC\FMVIEGQK\ AA\QRHDDFTQA*ILEKKARLERGKQL
5818	13869	A	6613	1	194	
5819	13870	A	6614	71	1145	NLRREPTNSRTLTVGATAGSITMKRLVC VLLVCSSAVAQLHKDPTLDHHWHLWK KTYGKQYKEKNEEA VRRLIWEKNLKFV MLHNLEHSMGMHSYDLGMNHLGDMTS EEVMSLMSSLRVPSQWQRNITYKSNPNR ILPDSVDWREKGCVTEVKYQGSCGACW AFSAVGAEALQKLKTGKLVSLSAQNLV DCSTEKYGNKGCGFM TTAQFYIIDNK GIDSDASYPYKAMDLCQYDSKYRAAT CSKYTELPYGR*DVLKEAVANKGPVSV VV\ DARQPSFLPLQESGVYDPS\CTQ\NV NHGVLVVG YGDLNGK\ EYWLV*NSWGP \NFGEEGYIR\LWARNKG NHCG\IASFPSY PEI
5820	13871	A	6615	2	289	
5821	13872	A	6616	2	125	
5822	13873	A	6617	9	106	
5823	13874	A	6618	2	505	
5824	13875	A	6619	1	104	
5825	13876	A	662	218	342	
5826	13877	A	6620	1	109	
5827	13878	B	6621	99	285	MPRKIEEIKDFLLTARRKDAKSVKIKKN KDNVFKFVRCSRYLYTLVITDKEKAEKL KQSLPXX*
5828	13879	A	6622	239	449	NCGNQRTSLRHRPTKRM PNSCQDPRKIR TLVKFKVRCSRYLYTLVITDKEKAE\KLK QSLPPGLAVKELK
5829	13880	A	6623	1	104	
5830	13881	A	6624	1	109	
5831	13882	B	6625	99	285	MPRKIEEIKDFLLTARRKDAKSVKIKKN KDNVFKFVRCSRYLYTLVITDKEKAEKL

						KQSLPXX*
5832	13883	A	6626	239	449	NCGNQRTSLRHRPTKRMPSQCQDPRKIR TLVKFKVRCSTRYLITLVIDKEKAELK QSLPPGLAVKELK
5833	13884	A	6627	2	129	YGPTHASGAMLRSCAARLRTLGAICLPP VGRRLPVEASRDPS
5834	13885	A	6628	1	289	
5835	13886	A	6629	6	418	RRLMRDFKRLQEDPPVGVSGAPSENNIM QWNAVIFGVTFKLVIEFPEEYPNKPPTVRF LSKMFHPNVYADGSICLDILQNRWSPTY DVSPILTSIQSLLEPNPNPANSQAQAL YQENKREYEKRVSAIVEQSWNDS
5836	13887	A	663	527	665	
5837	13888	A	6630	3	330	ARRRLMRDFKRLQEDPPVGVSGAPSEN NIMQWNAVIFGVYADGSICLDILQNRWSP TYDVSSILTSIQSLLEPNPNPANSQAQAL QLYQENKREYEKRVSAIVEQSWNDS
5838	13889	A	6631	51	418	
5839	13890	A	6632	3	141	
5840	13891	A	6633	1	581	HSDSAAAPGGGGAARDFFFFQTDRRGSC GACSTPARRRLMRDFKRLQEDPPVGVSG APSENNIMQWNAVIFGPGGTPFEDGVT F*LVIEFSEEYPNKPPTVRFVFPKMFSP NVYA*WVGICLDILQNRWESQHMDVS FLSLTFNSVSGWDEPNP*QSSPIAQAAQL YQENKREYEKRVSAIVEQSWNDS
5841	13892	A	6634	2	266	YCGPL*SVWVARNPFGAFVEFEDPRDA AGVV*ELDGRITLCPGPSWGHPR*DDYC RRGLPPRRRPPRRRLNLSRSLSPWT LSL
5842	13893	A	6635	3	164	
5843	13894	A	6636	1	947	IFLVFFITEMHRDSCPLDCKVYVGNLGN NGNKTELERAFGYYGPLRSVWVARNP GFAFVEFEDPRDAA*V*YLCPLRITLCCG RVRVELSNGEKSRNRGPPPSWGRRPRD DYRFPSMLFSLSLNLNQIGSSHLDRPHI PGQSAQLFIYQMSSQQLQQPSANKKAG KIHNTPFANQLNPTATSGQNLFRQILPGP SVRAGLTFTISLLKPKTNLQEGEASLAA GAGPFLEIGEERDRCLGREITSRPDPSLGL VVDLGQMKGNRRQFAREVYRKLLHLT GVCTENFKFCLRLHKLGAFLRCFSCSNL FVS
5844	13895	A	6637	1	282	
5845	13896	A	6638	116	561	PLDLEMHRDSCPLDCKVYVGNLGNNG NKTLELERAFGYYGPLRSVWVARNP LAFVEFEDPPRMQLDAVPRS*DGKNTNV ACPCKEWELVRMGEKRSRNRGPPPSL/ WGRRPARDGFIRREGVPPTLFGRSPRKG RFLFAARSRLS
5846	13897	A	6639	126	376	VLLARLQANGANTVELSAEWTFPSPGYV GSVLPQGHREPNA/CLFSKFRVLGSAP FLINRRITASNCVNRVYCLAATWRAVLPL
5847	13898	A	664	1233	1706	CLVFWLLYYPLQLPFHLLPHSLGSGQQ SSEESAATPSLAEGRREAAFRCPAGLA RQAWRPHARLPAPAAPLAAPSLAPLPTG RSGRWLPMCAASC*SPSPAMSVYPQRR LGQGAEDSEGPPVSRGCRAPGPQRPLA APGEQTAARTQAICLIW
5848	13899	A	6640	464	781	AFAFTKDRQLGSSKKRRMSSRFASSAAK CRAVRPLLRSRFPVPMPPGPWVSSTK IGSRLGRHQASCRG*SQRAR*SGLTGPT HMEPNKVRSTGLKFLPAQQS
5849	13900	A	6641	201	318	EINLTNFI CFSSRSDVS*RESPPSRELHRIS SISLEPG

5850	13901	A	6642	1	1714	
5851	13902	A	6643	1	789	
5852	13903	A	6644	1	293	SPEMESHPIITQAGVQWHNHSSLQPEIPGL KQSSHLSPSSWDHR*EPLAPWPKNIFKM LIL*IGFSHVIGNNGTYLYQSINNVEGPLK RSQKDRSCGN
5853	13904	A	6645	1	252	
5854	13905	A	6646	1	1974	
5855	13906	A	6647	3	320	
5856	13907	C	6648	238	324	MADLPIFLVEFSCFIIFNGSFMFSQKK*
5857	13908	A	6649	1	1088	
5858	13909	A	665	598	1159	CRQTGVKIYDVWFFWLLYPGLQLPFHL LPHSLGSGQSSSEESAATPSLAEGRREAA FRCGPAGLARQAWRPHARLPGAAPLA APSLAPLPTGRSGRWL PMLCAASC*SPSP AMSVYPQRRLGQGGAEDEGGSVSRGC RAPGPQRPLAAPGEQTAARTQASVYLL PHSPPLLSALHIHLLPPS
5859	13910	A	6650	1	368	
5860	13911	A	6651	3	243	
5861	13912	A	6652	24	288	
5862	13913	A	6653	2	272	
5863	13914	A	6654	965	2737	AASPGVLVCPQARTYIQLPPLADVQLTP LPTTGFPAAIDLLGRMLVLDSDQRVSA EALAHAYFSQYHDPEDPEAEPPGPGCGR HKLTLSLHLELTYQEVLSWDEAAGRRS PPPALPPRLRPSGSGPPAAAAAGFRRW AAPGPAMSSPPPARSGFYRQEVTKTAW VRAGACAGCPAFPLSGPPRSSAVDGRGT AKVAIKKLYRPFQSELFANPARVLCCILN PMWPPQVIGHAEGSVR*QSGPSHSYL VMPFMGTDLGKLMKHEKLGALRGCAE ACHHAWEGGAQWPPFLCPRSLGVP*N PPPQFFPQILDFGLARQADSEMTGYVVT RWSHPVPLPTELTRASISVDIWSVGCIMA EMITGKTLCSPPGGSGGPDLPWPPSCVP DLGADLDQLKEIMKVADLGLGVGPSFPL PTQAKNYMKGLPEWSVGPPVWPDPAPS PAAVNLLKMLVLD AEQRTVAGEALAH PYFESLHDETEPQVQKATTDGSLPSDP HASPGLHGLDVIAISSGATLTCGMAAV HTGPKVWAHRWPEDWGVAFALQTPRPP RLSPQVFLRPGRVGLGAALDPDPGWGA GRDL
5864	13915	A	6655	3	229	
5865	13916	A	6656	27	142	
5866	13917	A	6657	3	308	
5867	13918	A	6658	192	310	
5868	13919	A	6659	88	1506	ACGRFGFPEGPEGGRGRHVRAARGPVG PRAGEGPCAAWVGVGPGSAPGTSREG PGAGAPQRPAGGRASGRAARSRPEARA EGAPSPVVGAPPAGSAGWAAPGPAMSS PPPARSGFYRQEVTKTAWEVRAVYRDL QPVGSGAYGAVCSAVDGRGTAKVAIKK LYRPFQSELFAYRAYRELRLKHMREN VIGLLDVFTPDFTLDDFTDFYLVMPFMG TDLGKLMKHEKLGEDRIQFLVYQMLKG LRYIHAAGIIHRDLKPGNLAVNEDCELKI LDFGLARQADSEMTGYVVTWRYRAPEV ILNWMRYTQTVDIWSVGCIMAEMITGKT LFGSDHLDQLKEIMKVGTGTPAEFVQR LQSDAKNNMKGLPELEKKDFASILTNA SPLAVNLLKMLVLD AEQRTVAGEALA HPYFESLHDETEPQVQKYDDSFDDVDR TLDEWKIRVITYKEVLSFKPPRQLGARVS KETPL

5869	13920	A	666	358	644	RRSLALSPSPECSVDVIAHCKLCLPGFTPF SCLSLSSWDYRCPPLANFFVFLVET GFHRVSQDGLDLLTS*SARLSLPKCWDY RCEPPRA
5870	13921	A	6660	71	921	
5871	13922	A	6661	2	310	
5872	13923	A	6662	5517	5831	
5873	13924	A	6663	1	625	CKFIRVMAHTRLRLPLRRKKAHLMEIQ VNEGTVAEKLDWARERLEQVVPVNVQVF GQDEMIDVIGVTKGKGKGVTSRWHK KLPRKTHRGLRKVAC\KDGLIKNNAST DYDLSDKSINPLGGFVHYGEVTNDFVML KGCVVGTKKRVLTLRKSLLVQTKRRAL EKIDLKFIDTTSKFGHGRFQTMEEKKAF MGPLKKDRIAKEEGA
5874	13925	A	6664	1	1261	MSHRKFSAPRHGSLGFLPRKRSSRHGRK VKSFPKDDPSKPVHLTAFLGYKAGMTHI VREVDPRGSKVNKKEVVEAVTIVETPPM VVVGIVGYVETPRGLRTFKTVFAEHISDE CKRRFYKNWHKSKKKAFTKYCKKWQD EDGKKQLEKDFSSMKKYCQVIRVIAHTQ MRLPLRQNAHLM*IQVNGGHCGPRS WDWPPREGLKQGTVDPSVLGRNMID VIG\VTQPKGYKGGHPVVWHTQESCP KD/HHPRACRKGHVLGAWHPA\RVAF SVARAG\QKG\YHHRTEITKDD\YKIGPG LSPLFRTAKVIKGTIATDYDLF*QEASTP PGGFVHYGEVTNDFVMLKGCVVGTKK RVLTLRKSLLVQTKRRALEKIDLK\FIDTT SKFGHGRFQTMEEKKAFMGPLKKDRIA KEEGA
5875	13926	A	6665	1	168	
5876	13927	A	6666	3	203	
5877	13928	A	6667	3	523	LQFFRRSEVKMKNHLLFWGVLAVFIKA VHVKAQEDERIVLVDNKCKCARITSRIIR SSEDPNEDIVERNIRIVPLNNRENISDPT SP\LRTRFVYHLSDLCKK\CDPTEVELD NQIVTATQSNICGWMTPVQSTCYTLSTG NKCYTAVVPLVYGGETKMVETALTPDA CYPD
5878	13929	A	6668	3	276	
5879	13930	A	6669	2	152	
5880	13931	A	667	55	288	PFKKGGFFNGNLPTTFGKLGKFKPLNL FPGGPPLPHGGLKKGPGAPQVPLFLKK PQTSP*GLREGPPPLKKFYLF
5881	13932	A	6670	1	936	
5882	13933	A	6671	1	1023	
5883	13934	A	6672	106	125	KYLEQCLKHGKSS*HSILQANFFASEND RAKMK*KPCFYKCF*AITFLREDWDYRR EPLRLAYPVYFLTCKIRIMYTHLKDYTG H
5884	13935	A	6673	3	155	
5885	13936	A	6674	3	266	
5886	13937	A	6675	5	160	RDLSLQPPPPGFK*FSCLRLSPQVQRC CVPSPWLEQMITAWGASIHRN
5887	13938	A	6676	1586	2220	
5888	13939	A	6677	3	441	
5889	13940	A	6678	1	91	
5890	13941	A	6679	2	226	
5891	13942	A	668	2	385	ARGEPTMELSHADTTNVKAAWGWVGA HAGE*GADVLRMVLCPLTIWTFYPYFD LSHGCAQVNGHGKKVADALTNVHV DDMPNSLIGLSELHAH*LLVDPVNFKLL NHCLLGTLADHLLDEFTPAV
5892	13943	A	6680	3	187	
5893	13944	A	6681	2	209	

5894	13945	A	6682	2	702	FVSVPSVLLGLQFWRSERD/TARLQ SAR WRVERGRLKELLSRQRPRRREEVVVGR EVCRTMEVVRASLQKIVSNGDEQLEKA MEEILRDFEKRPSLLVDCQSSSEISDHSF GDIPASQTNKPSLQLILDPSNTEISTPRPSS PGGLPEEDSVLFNKLTYLGC MKVSSPRN EVEALRAMATMKSSSQYPPFVTLYVPN VPEGSVRHLSLLGGGEDVIASSGVELTV NSHCRHAE
5895	13946	A	6683	3	497	
5896	13947	A	6684	1	224	
5897	13948	A	6685	1	789	
5898	13949	A	6686	1	7500	
5899	13950	A	6687	1	8175	
5900	13951	A	6688	3	598	QCGGIRATTMAMSFEPWPQYRFPFFT LQPNVDTRQQLAAWCSLVLSFCRLHK QSSMTVMEAEQESPLFNNVKLQRELPVE SIQIVLEELRKKGNLEWLDKSKSSFLIMW RRPEEWGKLIYQWVSRSGQNNSVFTLYE LTNGEDTEDEEFHGLAEKPLLLRALQ/CP YSREHKAEIHHCSGDGRGVQVLLGRDLS PFTS
5901	13952	A	6689	2	356	
5902	13953	A	669	787	896	LLYNIYCGEKKREERKD*PGQHGETPSL QKIQLAG
5903	13954	A	6690	2	123	
5904	13955	A	6691	161	464	
5905	13956	A	6692	3	86	
5906	13957	A	6693	3	85	
5907	13958	A	6694	2	201	
5908	13959	A	6695	1	119	
5909	13960	A	6696	1	3414	MEPNDSTSTAVEEPDSLEVLVKTLDSQT RTFIVGAQMNVKEFKEHIRASVSIPSEKQ RLIYQGRVLQDDKKLQEYNVGGKVIHL VERAPPQTHLPSGASSGTGSASATHGGG SPPGTRGPGASVHDRNANSYVMVGTFN LPDGSADVHINMEQAPIQSEPRVRLV MAQHMIRDIQTLLSRMETLPYLQCRGGP QPQHSQPPPPPAVTPEPVALSSQTSEPV ESEAPPREPMEAEVEERAPAQNPETPG PA
5910	13961	A	6697	1	441	
5911	13962	A	6698	2	180	
5912	13963	A	6699	1	143	
5913	13964	A	67	1016	1461	VSHSHLSSPQFNHNLNRRPTRIPLSPQPK* GPAYSRRPVWTPAEPEALRWGRHRGP*K ARGSRPSSAHSGWRPRGEAPHRTGTAQP PTAVPCRRHLGEDSTPGPPGALGGVGF PSASP/PVPTPT*TQTGRRPETQLRQQT PRGAPRA
5914	13965	A	670	539	786	SIGRLRRVGHLSRSGVRDQPGQHGGT PSL LKIQKFAGHGGAFLYSQVLGRLRQENRL NSRGGGCSSESGQHYTPAWVTE*DSI
5915	13966	A	6700	2	1069	SLVERLKMAASQAVEEMRSRVVLGEFG VRNVHTTDFPGNYSYDDAWDQDRFEK NFRVDVVHMDENSLEFDMVGIDAAIAN AFRRILLAEVPTMAVEKVLVYNNTSIVQ DEILAHRLGLPIHADPRLFEYRNQGD EET GTEIDTLQFRLQVRCTRNPAAKDS SDP NELYVNHKVYTRHMTWIPLGNQADLFP EGTIRPVHDDILIAQLRPGQEIDLLM HCV KGIGKDHAKFSPVATASYRLLPDITL LEP VEGEAAEELSRCSFPGVIEVQEVQ GKKV AQSCPTPRLDTFSREIFRNEKLK KVVRL ARVR/DHYIFSVES/TGVLPPDVLV SEAIK VLMGKCRRFLDELDAVQMD

5916	13967	A	6701	197	310	WLCYIIYK*YDNWWHSMCFSKPLYPEIV SLNYILLKG
5917	13968	A	6702	3	67	
5918	13969	A	6703	3	517	
5919	13970	A	6704	150	840	GSLLSPDMANKGPSYGMSREVQSKIEKK YDEELEERLVEWIIQCGPDVGRPDGRGR LGFPVWLKNGVILDRL*TTFTPDASKPV KVPEKPPPPSCSSSKTEPLPHFLKAAEDY GVRPKSNIFQDL*TSLKGKMDMGSSSRGP LMAFGQLWQVTKN\NGHYRG\DPNWFY ERKPQQHKREFHRRALQKKGACPLAL PDGAANRRGPPQARH*QGYGTTLGQIHK LEAERAKP
5920	13971	A	6705	3	842	
5921	13972	A	6706	1	570	
5922	13973	A	6707	1	1437	
5923	13974	A	6708	3	286	
5924	13975	A	6709	172	364	FYLYLVMLCFIEPVKLLLVGAYIL*LLKT IHEFHNQCFVDTKSLKGRHFKEYVFFTL NMFHR
5925	13976	A	671	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAMGN PKVKAHGKKVLTSLGDAIKHLLDKGTF AQLSELHCDKLHVDPENFKLLGNVLTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
5926	13977	A	6710	1	683	
5927	13978	A	6711	18	292	
5928	13979	A	6712	1	687	
5929	13980	A	6713	1	119	
5930	13981	A	6714	1	339	
5931	13982	A	6715	3	470	
5932	13983	A	6716	2	2942	TGAPAWPSRRLRDLPAAGMWRLRRAA VACEVCQSLVKHSSGKGSPLQKLHLV SRSIYHSHHTLKLQRPQLRTSFQQFSSL TNLPLRKLKFSPIKYGYQPRNFWPARL ATRLKLRYLILGSAVGGGYTAKKTFDQ WKDMIPDLSEYKWIWPDIVWEIDEYIDFE KIRKALPNSEDLVKLAPDFDKIVESLSLL KDFFTSGSPEETAFRATDRGSESDKHFRK VSDKEKIDQLOEELLHTQLKYQRILERLE
5933	13984	A	6717	38	359	
5934	13985	A	6718	122	282	
5935	13986	A	6719	2	1010	
5936	13987	C	672	336	728	MGLPKTGHQQHFPQELESSSRIPHAGLS QVQVHFRLGQRCPLRSSQVLLWHLPRK VSTFLPCALTGVAHGWRQRTGCQSC QRTSGSMGRQPGAFPGFLLQHLSTFTLP HRLCDSSLVLLCEMTHGRLD*
5937	13988	A	6720	326	513	
5938	13989	A	6721	1	1076	
5939	13990	C	6722	11	79	MLPILRHTFLRVTLRGKKACLL*
5940	13991	A	6723	3	198	
5941	13992	A	6724	1	432	
5942	13993	A	6725	123	336	
5943	13994	A	6726	1	227	
5944	13995	A	6727	1	131	MPVLLTSEMIHKSSVKAGFAKVDQQQA PKSVQLLTVKTRDSTSNRGNSGPRSQAT DRICRTPYHFEDC*SGSTASPVSSASDS EDKRLNK
5945	13996	A	6728	3	364	
5946	13997	A	6729	2	197	
5947	13998	A	673	1	1254	
5948	13999	A	6730	2	421	
5949	14000	A	6731	33	294	

5950	14001	A	6732	2	670	
5951	14002	A	6733	1	171	
5952	14003	A	6734	1	789	
5953	14004	A	6735	3	363	
5954	14005	A	6736	2	379	
5955	14006	A	6737	116	373	
5956	14007	A	6738	1	164	
5957	14008	A	6739	3	122	
5958	14009	A	674	1	921	
5959	14010	A	6740	83	2455	
5960	14011	A	6741	83	2450	IRIAALDDFRTSLTMSSTRSQNPGLKQI GLDQIWDDLRAQIQVYTRQSMASRY MELYTHVYNYCTSVHQFVGLLEYKRLK EFLKNYLTNLLKDGEDLMDESVLKFYTQ QWEDYRFSSKVLNGICAYLNRHWVRRE CDEGRKGIYEIYSLALVTWRDCLFRPLN KQVTNAVLKLIKERNGETINTRLISGVV QSYVELGLNEDDAFAKGPTLTVYKESFE SQFLADTERFYTRETEFLQQNPVTEYM KKAEARLLEEQRVQVYLHESTQDELA RKCEQVLEKHLEIFHTEFQNLDDADKNE DLGRMYNLVSRIQDGLGELKKLLETHIH NQGLAAIEKCGEALNDPKMYVQTVLD VHKKYNALVMSAFNNDAGFVAALDKA CGRFINNNAVTKMAQSSSKSPELLARYC DSLLKKSSKNPEEALEDTLNQVMVVK YIEDKDVQKFYAKMLAKRLVHQNSAS DDAEASMISKLKQACGFEYTSKLQRMF QDIGVSKDLNEQFKKHLTNSEPLDLDISI QVLSSGSWPFQSQCTFALPSELSYQRF TAFYASRHSGRKLTWLYQLSKGELVTN CFKNRYTLQASTFQMAILLQYNTEDAYT VQQLTDSTQIKMDILAQVLQILLKSKLLV LEDENANVDEVELKPDTLIKLYLGYKNK KL RVNIN VPMKTEQKQEQTTHKNEED RKL LIQA AIVRIMKMRKVLKHQQLGEV LTQLASSRFKPRVPVIKKCIDILIEKEYLAE RV\DG EKDTYSYLALTLSGKGLDLCDPQ QIVHVGKE
5961	14012	A	6742	3	318	
5962	14013	A	6743	17	174	
5963	14014	A	6744	3	711	LSSCLCGSGKAFGMPTMRLLSFVVLALF AVTQAEEGARLLVSKSLLNRYAVEGRD LTLQYNIYNGSSAALDVELSDDSFPPEP FGIVSGMLNVKWDRIAPASNVSHTVVLR PLK\AGYFNFTSATITYLAQEDGPVIGS TSAPGQGGMLV\QREFDRRFSP\HFVLDW AAFGGHDPFPSPGIPL\WYSSKRK\YDT PKTKKNLIWGFHKPSSPKSKAPLPKKP QVLSQTPKGY
5964	14015	A	6745	74	471	
5965	14016	A	6746	1	1371	MAENDVDNELLDYEDDEVETAAGGDG AEAPAKKDVKGSYVSIHSSGFRDFLLKP ELLRAIVDCGFEHPSEVQHECIPQAILGM DVL CQAKSGMGKTAVFVLATLQLEPV TGQVSVLVMCHTRELAFQISKEYERFSK YMPNVKVAVFFGGLSIKKDEEVLLKNC PHIVVGTGPGRILALARNKSLNLKHIKHFIL DEC DKMLEQLDMRRDVQEIFRMTPEHEK QVMMFSATLSKEIRPVCRKFMQDPMEIF VDDETKLT LHGLQYYYVKLKDNEKNRK LFDLLDVLEFNQVVIFVKSQRCIALAQL LVEQNFP\AIAHRGMPQEERLSRYQQ\FK DF\QRRILVATN\LFGRGMDIERVNIAFN DMP\EDSDTY\LRHVARA\GRFGTKGLAI TFVSDENDAKILNDVQ\DRFEVNISELPD EIGHLLPTLEQD TVEDSPILGMLTVCSFQ

						GGGTPGWG
5966	14017	A	6747	2	139	AGSELGEGEEVGLSYL/DERTNSEEGGL RGEKRKRDAENDGEEDE
5967	14018	A	6748	3	270	
5968	14019	A	6749	21	301	
5969	14020	A	675	659	1601	SRASSSVVPLALPSLQVTFHPLNEGTLAV ASSMLSSFQPEIGTNATVLGL*PIFLM*VL TSLTISSYLFWL/RGWLSGTTLEALDCIL PPTRPTDKPLGLPLQDVYKIGGIGTVPG RVETGVLKPGMVVTFGPVNVTTVEKSV EMHHEALGEALPGDNVGFNVKNVSVKD VRRGNVAGDSKNDPPMEAAGFPAQVHIL NHPGQISAGYAPVLDCHTAHIACKFAEL KEKIDRRSGKKLEDGPKFLKSGDAAIVD MVPGKPMCVESFSDYPPLGCFAVRDMR QTVAVGVIAVDKKAAGAGKVTKSAQ KAQKAK
5970	14021	A	6750	4	366	RHRVSLYPSE/WSAVAQTHSSL*P*APWE LK*SF*LSPSS*K*RSIQLCPG*LRNFFFF/ CGRDGVLMLSMVFNSTQVMLLPQPP QVLGLRVELDDITFLKVSSLVLFCLKQGY KKRIWNP
5971	14022	A	6751	3	263	
5972	14023	C	6752	54	161	MLPSIQITVEKRMNVFQYSQDAGFSPVNI VFTIGR*
5973	14024	A	6753	161	1122	
5974	14025	A	6754	1	891	
5975	14026	A	6755	2	104	
5976	14027	A	6756	957	1285	HGTRRRRDVIMREFRSRVKVRVLITDL LGSRLMCNNVSLVIN/YMDLPTNREN/ YIHRIGRGGSNLGGKGVAINFCYLKKTR GFLRDIEITFLPILQWRRMPMKCGLTLF
5977	14028	A	6757	1	716	
5978	14029	A	6758	2	835	FLSVLPHSRALLTPKRAPKKKMAISGVP VLGFFIIAVLMSAQESWAIKEEHVIIQAEF YLNPDQSGEFMFDGDEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYTPITNPPEVTVLTNSP VELREPNVLICFIDKFTPPVVNVTWLRNG KPVTTGVSETVFLPRENTLFR/KFHYFP/ FLPPTEDVYDFRVE\HWGLDEPLLKHWE FDAPSPLPK\TTENVV\CALGLTVGLVGIII GTIFIIGK\NRKSNAEAERRGPL
5979	14030	A	6759	759	1022	PTQGQRKGTSHLGGGADAGCTAAEEPG GTAAASGAGAGRAGD*HPGTGAQHHP PAVPGAPGEETQGQVQEEPAEAQGWQ PHQPPF
5980	14031	A	676	1	1335	
5981	14032	A	6760	2	689	
5982	14033	A	6761	2	1011	
5983	14034	A	6762	2	151	

5984	14035	A	6763	3	740	RPIGEFRSNADYQYQLLRNVDDLKHIQL GLTFMNEQGEYPPGTSTWQFNFKFNLTE DMYAQDSIELLTSGIQFKKHEEEGIETQ YFAELLMTSGVVLCEGVKWLFSHSGYD FGYLIKILTNSNLPEEELDFEILRLFFPVI YDVKYLKISCKNLKGGLAQEVAEQLAE LERIGP\QHQAGSDSLTGM\AFFKMREM FFEDHIDDAKYCG\HLYGLGSGSSYVQN GHRGMHMEEGSQQGSPTWK
5985	14036	A	6764	296	522	IWVFHNLKGLFEIFCCILKYFLEELLILF* KTKL*KHASFLKNNPSIQDMESSTTVHRS GLGGSLCADVLSLQWL
5986	14037	A	6765	3	333	
5987	14038	A	6766	1326	1980	TSEASRQSERVDSAALSLSLSRSSKCR PWGTARVARAGGCLTPLLRRFLETRPF TGPWDPGLGVTCWCCPPKRRLKSTPRPK FSVCVLGDQHCDEAKAVDATFEVCLG DQVLSNANGFLSLSAKKYDAFLASESLI KQIPRILGPGLNKAGKFPSLLREEGQAIC YSSTNLT*SSLPSSQVLC\AVAVGHVKM TDEL\YNIHLAVN\FLVSLK
5988	14039	A	6767	11	713	EAMSSKVSRTLYEAVREVLHGTRQRK RKFLAETVELQISLKNYDPQKDKRF\SGT\ VRLKSHSPALSFSVCVLGD\AQH\CD\EA KA\VDIP\HMD\EALEKTSTKNKKLVKK AGQRKYDAVFGPQSLLIKQIPRIPRAGL NKAGK\FP\SL\THNENMV\AKVDEVKS PIKF\QMKKVLCLAVAVGHVKMTDEL VFNIHLA\VNFLVSLK\KNWQKCSGAL YYQEAPMGQSPKRLY
5989	14040	A	6768	2	277	
5990	14041	A	6769	1	336	
5991	14042	A	677	1	811	
5992	14043	A	6770	132	347	
5993	14044	A	6771	3	109	
5994	14045	C	6772	5	160	MGFEGGPKILNWKFKKVXQXSCLXKG QXESIFLNTXKVIRAGDTXKSVLG*
5995	14046	A	6773	52	310	YIIRTQTQISHPLHYILGSAKKKLCFGKS YFIRGSSFRKGQGHEERGLKYKKKTGEG V**KRTKKQTKTKTKIKYLSRCCGNV
5996	14047	A	6774	149	333	
5997	14048	A	6775	1	1616	LLLLFLESTRFY*FFFFFFFFFTIQTFKGG PLSPFFLLFFIKPLPQFFFFIL
5998	14049	A	6776	2	138	ASGHREVQDSYEAYGQDDWNGTITSLK/ APPARPVKGAYREHPYGRY
5999	14050	A	6777	1	1212	
6000	14051	A	6778	3	150	
6001	14052	A	6779	2	1622	ASVATAPALPPPPTAARASVAAASLSRSL DRTSSQMQRDDPAARMSRSSGRSGSM DPGAHPSVRQTPSRQPPLPHRSRGGG GSRGGARASPATQPPPLPPSATGPDATV GGPAPTPLPPSATASVKMEPENKYLPEL MAEKDSLDPSTHAMQLLTAEIEKIQKG DSKKDDEENYLDLFSHKNMKLKERVLP VKQYPKFNFVGKILGPQGNITIKRLQEET GAKISVLGKGSMRDKAKEEELRKGGDP KYAHLNMDLHVFI\VF\GPPCEAYALMA HAMEEVKKFLVPDMMDDICQEQFELS YLNGVPEPSRGRGV\VRGRGAAPPPPV PTGRGVGPPRGALVRGTPVRGAITRGAT VTRGVPPPPTVRGAFC*RARTAGVIQRI LPPPPAPETYEYGYEDTYAEQSYEGYE GYYSQSQGDSEYDYGHGEVQDSYEA LWPRTNWNGTRP\SLKAPLARPVKGAY REPPYGRLLKTKHEGENISYEQSLLDLFL YLP\GIPVALPTDQGNWSKCF\FFRGSPSF SPTLIPFL

6002	14053	A	678	269	561	LSFVGSLSRLFTAGFAECPRFRFRPAPNP RTPSTRNSAPDSQKGATWATAVQAAPR WT*ETGSPNPWPTLAAPCSRSRPGPPASFS GGPSASCKLCLK
6003	14054	A	6780	1	76	
6004	14055	A	6781	1	287	CFL*DRVLLCHPGWSAVAHNHSSLQP*T PGIKQFSCRL/SSS*DYRCTSPYLAIFFFF *FFCRKQSLATVPRTISNSWPQAILLSWS KHVEITGF
6005	14056	A	6782	3	64	
6006	14057	A	6783	2	69	
6007	14058	A	6784	1576	3458	
6008	14059	A	6786	1	960	
6009	14060	A	6787	507	755	NKRGYKQMEEHSMMLGRKNQYRKNGH TAQGNL*IQCHPHQATNDFLHRIGKDNF QVHMEPKKSPHRQVNPKEQSWRHH T
6010	14061	A	6788	274	882	PDQVDRGGAHWQTDADDPWLADHLQH CQRCGEILRHYSGGIRGNVSAVKCAEHH VPAFARLRNPQCGDFQRLDYRLFDSPGV KRREL*TA YRFCHVAP*LMDLRSGWAA GAVYRYQSH*FTADRLRSVDMDEAGN HHSQQT SQDQKIKQRTFSLISGS*TTRTH GHREGNITHRGLSRPNTARILCASKAHL GLPLRSSLP
6011	14062	A	6789	114	329	
6012	14063	A	679	415	1094	SKSRMSAEVIHQVEEALDTDEKEMLLFL CRDVAIDVPPNVRDLDILTERGKLSV GDLAELLYRVRFDLLKRILKMDRKA VE THLLRNPHLVSDYRVLMAEIGEDLDKSD VSSLIFLMKDYMGGRGKISKEKSFLDLV ELEKLNLVAPDQLDLEKCLKNHRIDLK TKIQKYKQSVQGAGTSYRNVLQAAIQKS LKDPSNNFRMITPYAHCPDLKILGNCSM
6013	14064	C	6790	1	1983	MGDGTSDFDPIGDIGIRQSNYSCGGCPRI PYVWRVTGRAHGTQTI VVFMKVYYG NVMREKDSGGAWGNPWAGILLPPST RNCTVHSSFSNENIFPQHTSSCVVHNQ YIGADFPWSNFSFVVEYNYVEDSCWTK HCKELNIPYMAFKVILPDTVLERSTLLDR FGGFLEIQIPYVFFASEGLLNTPDILQLL ESKDMDEAGNHSEQT VTRTENQTLHV LTHRWELNNENTWTQDGEHHTPGPVVG WRELIIAPGVEATALIIRQIADHSLMTSKR DPHEWLDKSWLKVSPSEENRNQISTLSS QSSASDLDSVIEHNEYQYGLGETVQ EDKTTILNDNSSIMELKEISSFLPPVTSYN QTSYWKDSSCKSNIGQNTPFLINIESRRP AYNSFLNHSDSESDVFSGLTQMNCETI KSPTDTQKRVSVPFRINSQKRRTHEAK GFINKDVSDPIFSLEGTQSPLHWNFKKNI WEQENHPFNLQYGAQQTACNKLYSQKG NLFTDQQKCLSESEGLTCESSKDETFW RELSPVPSLDLFRASDSNANQKEFNLYF YQRAGKSLGQKRHHESFNSGDKESLTE EKTEAQEKMTTEDRGRGWGYATTNRR MPRIAGNHQEPGERRGTPPPSEAPEGSNP ANTLILDFPPPEL*
6014	14065	A	6791	190	486	FLLHFFLHD*YSSNKLQKVNKSIPPTGPS LCPCVLIVQLPLMSENMRCLVFCSCVSL LRMMVSSFIHVPLNFFNAFLLLNFFRCP LLSCHMIKKSSS
6015	14066	A	6792	1	597	

6016	14067	A	6793	1	721	MTSYNEQNKKPVTDPNEMAIHEDSNQE FKIAVVNETQQRSPRSPTEHLMTPPPLPT REQQPPLTVIFHYLPKSYKTAPPLSPFPDS LFGLSQAPRDMDEAGNHHSQQTKQEQ KTKHCMFSLTSGS*TMRTGHGREGTVIH RGLLGQFSQQLINKSEFSNTVCREKSGR VLQVNMESPL*MIQDALQDQTPKGPIT VFL*LFYLDHLLRSSHKVASYLSTESRSR GSITVLFIRCSEP
6017	14068	A	6794	417	696	DRNRKANTACFQHSQVGVEQ*EHMDTG KV*SI*YGNYEHTSTCERMEIQKATTEHL NL*S*SGSFLRFTWKMLQFSKISRIFYQV LKHQQKIM
6018	14069	A	6795	325	1489	RSPTLLMHVHYIKVISWRELLIWLRAA NASINPGVEQSPSGDPKTVTGFPFLREA ADWVEEASVPKGVHIALSSQEQRAGDP RDLEAPSNLVISERTHRSFRVSWTPPSDS VDYKVEYYPVSGGKRQEVVRTPGVDP LRLPAIIPQAAWLLAHLPAAPSAPTELPT KHTEAQSQRCSLLCSVTEVAAPSQV VKEAPPSFHTGTENGYQGEESLFNKAYY GGGTNFFRKESQKLQSAKKRDAELAN GALGIELNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLFDSRGSKMTI DENKIPRNPTYKREGPLQGELOTTAAG NKRQYKQMEHSMMLDRKNQYRENGL TAQAIPQPPPSGI*GYTAPCFPWENLI
6019	14070	A	6796	274	716	QACYIYTTYEYAAIKNDEF/TVLCRDMD EAGNHHSQQTVTRTKNQTPHVLTHRWE LNNENTWTQEGEHHTPGPVMLDSAPPTL GHQTPGSSAFGLWDLHQRLRLRPQTKG STVGFGPGEAFKLGLGHYWLSFFPSLQT AYRGTLPPFNH
6020	14071	A	6797	1	870	
6021	14072	B	6798	328	2283	MKLEAAILSKLTQEKNQTLHVLTHRWE LNNENTWTQGGEYHTLGPVDGFKKEE AAIGAILQPLLVIQTVLGVDLQQTADLQ QRGLLEEKLTNRKKIAHTVRDHIQREHN SSPAREQNWMENFTDELTVQGFRRWVI NSSELKEHDLTQCKKGWMMLETIIFSK LTQEKNQTLHVLTHKWELNNENTWTQ GGEHHTLGPVWRMFQIYVVAERMLDKI PSLAFGLDLRQWFARGCWSFGHRLKA ARITAPRLAREQNWMENEFDKLTEVVFR RWVITKSKLKEHALTQCKEDKNLEKKEL ATQQKMSRTASEASSVFTATPHCYHYY LSSASYHISGSIRFPVLEKIRLHMGLENK CKVLLSGGSSSQMYGDLEGGWNGKV VFPWSWAVQEPASPPTLGGISLTVCCST VNGLPASVDVFFCREALPRNLQKFPKAD LGCILLQYIDNLLGYSTAVGCARRMDA LLRHLEDCGYKVSKKKAQICRQQTGEQ TIRERWIKLSDGRIAVPQLGAADVAVLAV HKTIHLQGESLEKLLGQYFYISHLPAKAK TVAQQCVTCQQRHAKQGPSVPPGIQAY RVASFENLQVDFTEMPKCGDQGLERGST VALVEGTPDHYPDHSHSYKGRNPNKLD SHSCVKPATAKT*
6022	14073	A	6799	2	472	
6023	14074	A	68	241	492	GGQIMRSGY*DHPG*/HGETRSLKIQKL AGHGGRHL*SQLRRPRLNRLNLGGRG CSEPSSRHCTAAWATE*DSVSKKKKSRR

6024	14075	A	680	551	1706	SKSRMSAEVIHQVEEALDTDEKEMLLFL CRDVAIDVVPPNVRDLLDIFT/RERGVLS VGDLAELLYRVRFDLLKRLKMDRKA VETHLLRNPHLVSDYRVLMAEIGEDLDK SDVSSLIFLMKDYMGGRGKISKEKSFLDL VVELEKLNLVAPDQLDLEKCLKNHRI DLKTKIQKYKQSVQGAGTSYRNVLQAAI QKSLKDPSNNFRLHNGRSKEQRLKEQLG AQQEPVKKSIQSEAFLPQSIPEERYKMK SKPLGICLIIDCIGNETELLRDFTSLGYE VQKFLHLSMHGISQILGQFACMPEHRDY DSFVCVLVSRGGSQSVYGVDTHTSGLPL HHIRRMFMGDSCPYLAGPKPMFFIQNY VVSEGPAGEQQPLGGWMGQR
6025	14076	A	6800	1	239	QCCSGGTHGNPAIGDR\MOQKILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
6026	14077	A	6801	2	440	TGIVMDSSDGITHTMPYEGYTLPHAILP LDLAGQDLTDYFMKILKEGGYSFTTTAE REIMLDIKEKLCYITLDFEQEMATAASSS SLEKS*ELLNGQVITISNQWFHCP/EYLFQ PSFFTSIMKCDVDICKDLYANTVLSGGT TMY
6027	14078	A	6802	2	212	
6028	14079	A	6803	3	443	
6029	14080	A	6804	1	1470	MSTRPRRPQQLGRSTGRARLASRVAAAA GPPGARAPLAGDRAPAAGAPRRAGAGP CRPDPPPPAAGPTRGSPREGGKTGNRGK EREKGRRRAQSLAFADPPPVA TRRQLTMD DDIAALVVDNGSGMCKAGFAGDDAPRA VFPSIVGRPRHQGVVMGMGQKDSYVGD EAQSKRGILTLYPIEHGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTEAPLNPK ANREKMTQIMFETFTNPAMYVAIQAML SLYASGRTTGIVMDSGDGVTHTVPIYEG YALPHAILRLDLAGRDLTDYLMKILTER GYSFTTTAEREIVRDIKEKLCYVALDFEQ EMATAASSSSLEKSYELPDGQVITIGNE\ RFRCPALFQPSFLG\MESCGIHETTFNSI MKCDVDIRKDLY\ANTVLSG\GTTMYPG IADRMQKEITAL\APSTMK\IKIAPS*RK YSVWIGGSILGL\STF\QQMWISKQEYD ESGPSIVHRKCF
6030	14081	A	6805	171	393	GKPKPKPKPLPKPKSREISHIP*GL*KAGP FRAPGRPGCKPCWLGPS\GPGGR*GCP*K ASPEKVLGENLTLKNP
6031	14082	A	6806	3	264	SRRGSSPAQGS LGRPQLLSAQYKWVG GGDRVSL*TMDSLAPKTNQRASQSKLD LQPA*APWP/PQLCGHPVPSPASCPKSPTF KPT
6032	14083	A	6807	1	632	
6033	14084	A	6808	1	591	
6034	14085	A	6809	783	1516	
6035	14086	A	681	76	158	
6036	14087	A	6810	1	951	
6037	14088	A	6811	122	271	
6038	14089	A	6812	3	132	
6039	14090	A	6813	3	302	
6040	14091	A	6814	2	2158	
6041	14092	A	6815	2	186	

6042	14093	A	6816	1	866	MMEAIIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKGTEDELDKYSEALKDAQEKLELAEEKKAA DAEAEVASLNRRIQLVEELDRAQERLATALQKLEEAEKAADESERGMKVIENTRALKDEEKMEIQEIQLKEAKHIAEEADRKYEEVARKLVIIEGDLERTEERAELAESKCSE LEELAKNVTNNLKSLEAQAEKYSQKEDKYEEEIKILTDKLKEAETRAIEFAIERSVAKLEKTIQDDLEDELFAQKLKYKALSEEL DHALNDMTSI
6043	14094	A	6817	1	639	
6044	14095	A	6818	1	1710	
6045	14096	A	6819	764	1203	FWLWVSFWVPCNTHTTSKSTSFSSPSTQ ATRFQVL/WFVIKASIIQYCIARERKEFT HPVGRSLCRLQKLYNGTTETVTSWSSNH TERNPFSKFKLRTVWTHPESHRDWTAP TGLYWICGHRAFAKLPPDESAGIGGPKQG AIGIKE
6046	14097	A	682	1	2313	
6047	14098	A	6820	24	225	ARQAQAWFWAWRWAACLWFFLVVFS *NRY*VSNNKNNIRRLSSLNSSCKF/WS TRQK*IPKMLS
6048	14099	A	6821	1	1752	
6049	14100	A	6822	110	203	
6050	14101	A	6823	76	353	
6051	14102	B	6824	64	930	MLRSVWNFLKRHKKKCIFLGTVLGGVYI LGKYGQKKIREIQEREAAYIAQARRQY HFESNQRTCNTVLSMLPTLREALMQQ LNSESLTALLKNRPSNKLEIWEDLKHSFT RSTVAVYSTCMLVLLRVQLNIIGGYIYL DNAAVGKNGTTILAPPDVQQQYLSSIQH LLGDGLTELITVIKQAVQKVLGSVSLKHS LSLLDLEQKLKEIRNLVEQHKSSSWINKD GSKPLLCHYMPDEETPLAVQACGLSPR DITTIKLFHKTEDMLGSPDFRQLNTCFK PRF*
6052	14103	A	6825	385	666	
6053	14104	A	6826	701	930	VAERQTGTGQGTVDITDRATSM*MRQ RRGCCFATCC/FRHEGVPPVWQGRYHD HEGGFPRARLIHCTPDVLTYPYHVP
6054	14105	A	6827	248	719	TDEPSLLSHTFCPKGALLSACSGACPLSS GTQAGMPPSTEALQPCRGLTVPHQODK GHRACC/VWKALAADWSVEWQKGRRG LGKALSVTSR/IRATSM*MRQRRGCCFAT CC/FRHEGVPPWERYHDHEGGFPRAR LIHCTPDVLTPAISPNVGNSTA
6055	14106	A	6828	1	2489	
6056	14107	A	6829	227	547	FHNKCPRRLESRLRQQISIFGMPENHLLKM QILRSAPDSLDFPCAGPLHLGEELLHRV EQVGAEVARVQQDFVL*GDMVEHLPRP GRQAESTPPTVPGNPPETLRRR
6057	14108	A	683	788	926	PSPELPEGDFEGFFPQKLQ*SCLPTLQKK KNNNNNNNNNNNNNNNEK
6058	14109	A	6830	3	433	
6059	14110	A	6831	37	360	
6060	14111	A	6832	280	1816	
6061	14112	A	6833	3	251	GGALRLHQVPPALPLRGAVSGAAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGSLQPPPPRFKRFSCILPSSWDYRH
6062	14113	A	6834	3	251	GGALRLHQVPPALPLRGAVSGAAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGSLQPPPPRFKRFSCILPSSWDYRH
6063	14114	A	6835	2	340	
6064	14115	A	6836	220	412	

6065	14116	A	6837	425	619	
6066	14117	A	6838	1	684	MESQEPTESSQNGKQYIISEELISEGKWV KLEKTTYMDPTGKARTWESVKRTTRKE QTRDGVAVIPVLQRTLHYECIVLVKQFR PPMGGYCIESPA\GL\IDDGETPRKQLLSR ELEEEETGLQRGPLPEC/SLPAVCMGPQAC PNCTIHIIVTV/TPINGDDAENARPKP/KSP GDGEFVE\VISLPKNDLLQRLDALVAEE HPHSGTTPRVYS\YALAL\KHANAKP\FEV PFLKF
6067	14118	A	6839	3	194	
6068	14119	A	684	242	437	KSCFFCLIRCYDSLPLPLLNNFFFLGTES CSVAQAGVRWLNLSSSATSGLPGSINSP ASAS*AA
6069	14120	A	6840	1	168	
6070	14121	A	6841	3	191	
6071	14122	B	6842	15	377	MAALCRTRAVAAESHFLRVFLFRPFRG VGTESGSESGSSNAKEPKTRAGGFASAY GAARRSFYRRWSPYRKVEPGRGSPKKC GILCIYAETILPLTTDGTLTQTKLVHWTG SFIFVENDL*
6072	14123	A	6843	2	205	
6073	14124	A	6844	1260	1628	SFLCLVSCFSNFS*NCSRPFVSLSLKFDFV FVLFCDGVLCHPGWIAVAQSRLTTAST SR\KRFSCLTIRSSWDYRRPPPCPADFCIF SR/DRGFTMLARLVWNS*PQVICPPPPK VLGLQA
6074	14125	A	6845	3	629	
6075	14126	A	6846	15	241	
6076	14127	A	6847	93	172	
6077	14128	A	6848	3	82	
6078	14129	A	6849	2	237	
6079	14130	A	685	1	1254	
6080	14131	A	6850	407	529	
6081	14132	A	6851	2	383	
6082	14133	A	6852	1	444	
6083	14134	A	6853	1	279	
6084	14135	A	6854	3	989	
6085	14136	A	6855	1	318	
6086	14137	A	6856	1	397	
6087	14138	A	6857	15	95	
6088	14139	A	6858	3	350	
6089	14140	A	6859	118	325	
6090	14141	A	686	73	1553	PLKAKMGKEKTHINIVVIGHVDSGKST TTGHLIYKC\GGIDKRTIEFEKEAAEM GKGSFKYA\WVLDK\KAER\ERGITIDISL WKFET\SKYYVTYPFDAP\GH\RDYFYPKT WITGDIFRLDWFGGPPFWGGSPLIVAAG\ VGEFEAGYLPRNGADPERHALLAYTLG CETTKLSGVNKNGIPLEPTPTAQKKILKEI VKGKSALT\LRKIGYNPD\SSILCPISGWN GDNMLEPSA\NMPWFQGDGKVTRKDG NASGTTLEALDCILPPTRP\TDKPLGLPL QDVYKIGIGITVPVGRVETGVLKPGMV VTFGPVNVTEVKS\SEMHEALGEALP GDNVGFNVKNVSVKDVRRGNVAGDSK NDPPMEAAGFPAQV\IILNHPGQISAGYAP VLDCHTAHIACKFAELKEKIDRRSGKKL EDGPKFLKSGDAAIVDMVPGKPMCVESF SDYPLGCF\AVRDMRQTV\AVGV\KAQKAK KKAAGAGKVTKSAQKAQKAK
6091	14142	A	6860	1	135	
6092	14143	A	6861	1009	1140	
6093	14144	A	6862	3	416	
6094	14145	A	6863	4	252	

6095	14146	A	6864	3	130	
6096	14147	A	6865	1	1590	
6097	14148	A	6866	1	595	GTRRLAPTAQRKRDENQSVKPEPGRGAS VRGGNLQTLPAAGDFTLCPASRDFRRVP AGQTQVPAAETA VEPVPAVVAGARGGR VMSEPQPRGAERDLYRDTWVRYLYAN EVGEAFRSLVPARVVWLSYGVASSYVL ADAIDKGKE/ELERCPALEASRSARVTVA VVDTFVWQALASVAIPGFTINRVCAASL YVLGT
6098	14149	A	6867	2	453	
6099	14150	A	6868	1	265	
6100	14151	A	6869	46	194	
6101	14152	A	687	67	408	KAAGKRGDFKTEGAYQRQRTIFKNKKR ARREKTGRENLRGNYKNMGRGLKTPRG ALGGPYLDKKGPLRGKGPFGGTLSSS PKIKIQGT*IRRYWPYIRRYNRFKKRQ KNM
6102	14153	A	6870	4	228	
6103	14154	A	6871	1	288	
6104	14155	A	6872	1	885	
6105	14156	A	6873	532	687	
6106	14157	B	6874	158	3331	PRPPAAGEAQAAADMNHQQQQQQQKA GEQQLSEPEDMEMEAGDTPPRITQNP VINGNVALSDGHNTAEEDMEDDTSWRS EATFQFTVERFSRLSESVLSPPCFVRNLP WKIMVMPRFYPDRPHQKSVGFFLQCNA ESDSTWSCHAQAVLKINRYRDEKSFSSR RISHLFFHKENDWGFSNFMWSEVTDPE KGFIDDDKVTFEVQADAPHGVAWDS KKHTGYVGLKNQGATCYMNSLLQTLFF TNQLRKA
6107	14158	A	6875	589	732	
6108	14159	A	6876	1	799	
6109	14160	A	6877	2	470	
6110	14161	A	6878	3	204	
6111	14162	A	6879	367	551	EHSTLKLPHYHTQEAGAAPGPTGTDSEHV DHLEGGAGKEAGPCA*SLGTMVAPVRS NSGSPE
6112	14163	A	688	10	386	AGAAAIGEPMA*RGEHPPWSVDERAD STNVNNWHWTERDASHWSTDKLKTLFL AMHVQNEERNGEATEVSKLDGEASINN RIGKLMFFYEWGVILDWTGAS*SGVPY KGHVEIPYLADENCVDE
6113	14164	A	6880	24	547	
6114	14165	A	6881	1	828	
6115	14166	A	6882	2	270	
6116	14167	A	6883	2	114	
6117	14168	B	6884	75	293	MPSIKLQSSDGEIFEVDVEIAKQSVTIKT MLEDLGMDDEGDDDPVPLPNVNAAILK KVIQWCTHHKDDPPSS*
6118	14169	A	6885	446	639	

6119	14170	A	6886	3	1503	ARQRRSRAPTTHTHRALVRLFSGSQSAP PPPPRSPPSAAMSTRSVSSSSYRRMFGG PGTASRPSSRSYVTTSTRYSLGSLARP STSRSLYASSPGGVYATRSSAVRLRSSVP GVRLLQDSVDFSLADAINTEFKNTRTNE KVELQELNDRFANYIDKVRFLEQQNKIL LAELEQLKGQGSRLGDLYEEEMRELRR QVDQLTNDKARVEVERDNLAEDIMRLR EKLQEEMLQREEAENTLQSFQDQVDNAS LARLDLERKVESLQEEIAFLKKLHEEEIQ ELQAQIQEQHVQIDVDVSKPDLTASLRD VRQQYESVAA\KNLQEAEEWYKCQVC* PLLRASNRN\NEPLRQAK\QES\TEL\PENR VQSLTC\EVDAL*RKPMSSLER\QLREME ENFC\AVKAANYPRLLARL\QDEIQNY* RREMASLTFVEYQ*PALNVKMAP*HLRF ATLQE/MLLGRRGERGFPLASFPNFSLP* TLRGNLIWDSLPSGLIPHSKRDTs
6120	14171	A	6887	3	232	
6121	14172	A	6888	252	384	
6122	14173	A	6889	3	196	
6123	14174	A	689	2	323	REMDLQVHNAMDQLEQRVSEFFMNAK KNIPWREEQMASIKKDYKALEDADE KVQLADQIYDL/RSLELDTPSQPVNNHH AHSHTPAEKRKYNPTSHHTTTDHIPEK
6124	14175	A	6890	1	2994	
6125	14176	A	6891	75	350	TGIPVNSYRVKINWYTLQFVSLFRPFPGL VINNQLADQSESEGPVQESAEPSQLAEVP ATEEIKETDGSSQIKQEPDPTWETSFLLG EISF
6126	14177	A	6892	1	2935	
6127	14178	A	6893	214	301	
6128	14179	A	6894	1	2879	MAQVAMSTLPVEDEESSES RMVVTFLM SALESMCKELAKSKAEVACIAVYETDVF VVGTERGRAFVNTRKDFQKDFVKYCV EEKAAEMHKMKSTTQANRMSVDAVEI ETLRKTVEDYFCFCYKALGKSTVVPVP YEKMLRDQSAVVVQGLPEGVAFKHPEN YDLATLKWIGENKGGISFIIKRPFLPKK HVGGRVMVTDADRSLSPGGSCGPIKVK TEPTEDSGISLEMAAVTVKEESEDPDYY QYNIQG
6129	14180	A	6895	1	334	
6130	14181	A	6896	3	444	
6131	14182	A	6897	117	1009	
6132	14183	A	6898	5	808	LPLPGRAVWCTHCCAPTPSGPVLPHSAA MSFLKSFPFPPGPAEGLLRQQPDTEAVLN GKGLGTGLTYIAESRLSWLDGSGLGFSL EYPTISLHALSRDRSDCLGEHLYVMVNA KFEEESKEPVADDEEDSDDDVEPITEFR FVPSDKSALEAMFTAMCECQALHPDPED EDSDDYDGEEYDVEAHEQGGDIPTFYT YEEGLSHLTAEGQATLERLEGMLSQSVS S\QYNMAG\VRT\EDSIRDY\EDGDGRLD TP\TVCLGQF\EDADV
6133	14184	B	6899	233	411	XALNGLSAQDNWAKLQRDYPDALITNY YLWPAVQLANFYLVPLHYREDPASTTLV SDPT*
6134	14185	A	69	709	941	SQHFERSGDQHHPGQHGETLSLLKMOK LAGCGGMRL*SQLGRLRQENLLNPGG RGCSKPRSHHCTPAWVTQQDSIS
6135	14186	A	690	2	495	AKKNKPEWREEQMASIKKDYKALEDA \DEKVLLSNQIYDLVDRGGRKLDQELAK FKMELEADNAGITEILERRSLELDTPSQ PVNNHHAHSHTPVEKRKYNPTSHHTTTD HIPEKKFKSEALLSTLTVRCLLRENTLGC R\NNNSTASSNNAYNVNSSQLGSGYN

6136	14187	A	6900	109	435	
6137	14188	A	6901	34	408	RQWLQEEAYITKEQKYSFLHDSQTSFCF SDSIPTSSNMEETQQ/KSNLELLHISLLN/ QSRLEPVRFLRSTFTNNLVYDNSDSDY QLLKDLEGGIQMLMGRLEAATN*LGGP QANYNKFDKTRTT
6138	14189	B	6902	80	495	XPGSRTSLLAFALLCLPWLQEAGAVQT VPLSRLFDHAMLQAHRAHQLAIDTYQEF EETIYPKDQKYSFLHDSQTSFCFSDSIPT SNMEETQQKSNLELLRISLLIESWLEPV RFLRSMFATTWCMTPTMTAMTITS*
6139	14190	A	6903	1	597	
6140	14191	A	6904	3	552	
6141	14192	A	6905	3	716	
6142	14193	A	6906	359	648	WIPRPNSPNHSGSCGQAHLVAMAPGSRT SLLAFALLCLPWASRRLGAVPKPFRIS RLFADHAMLQAHRAHQLAIDTYQEFEE TYIPKDQKYSFLA*PQTSFCFSDSIPTPS NRRITQQKSNLELLRISLLTESWLEPV RFPQEYCSANNLGVLTPTAIDYHLLKD LEGGHPTV*WNICREVCFSACPSRGIRDD IEEEDDQEAIFYRYMAENPTAGVVQEEEE DNLEYDSDGNPIAPTCKIIDPLPPIDHSEV DQHGLRPEGTHLTLKERTSWVESVADTL CTILTTLVMDPKAQLPEPLRVLWTGSPS GNGSRLPDVPCSWLLPCSACPLQGGW VPCQNRSVYPGFFDHAIAPSRAPAGH CTPTRSLKKPHIPKDQKYSFLA
6143	14194	A	6907	113	411	
6144	14195	A	6908	3	1162	
6145	14196	A	6909	2	265	
6146	14197	A	691	50	391	GSQKIAPVFWSGFECDSIIRLTDLESWLY ILPATQPWSLTYFYFQFSILTFRLRYDKLF FFFTLYLYLNLYFFLYVFLFIV*ICIFCYIY LVFIFKCVV*FFIFFFVCFMLFFL
6147	14198	A	6910	3	151	
6148	14199	B	6911	58	359	SLAALQAYSHWLAQYCSEVHRQNTQQF VTLISTTMDAITPLISTKVQDKLLLSACH LLVSLATTVRPVFLISIPAVQKVFNRTDA SALRLVDKRMSSSGP*
6149	14200	A	6912	4	329	
6150	14201	A	6913	2	256	
6151	14202	A	6914	1	350	

6152	14203	A	6915	257	2659	VDCRMS/FSYIEKFTDFLRLFVSVHLRRIE SYSQFPVVEFLTLLFKYTFHQPTHEGYFS CLDIWTLFLDYLTSTKIKSRLGDKEAVLN RYEDALVLLLTEVLNRIQFRYNQAQLEE LDDETLDDDDQQTWQRYLRQSLEVVA KVMELLPTHAFSTLFPVLQDNLAEVYGL QQFIVTSGSGHRLNITAENDCRRHLHCSLR DLSSLLQAVGRLAEYFIGDVFAARFNDAL LTVVERLVKVTLYGSQIKLYNIETAVPSV LKPDLIDVHAQSLAGGCRLSAHWLAQY CSEIHRQNTQQFVTLISTTMDAITPLISTK VQDKLLSACHLLVSLATTVRPVFLISIP AVQKVFNRTDASALRLVDKAQVLVCR ALSNILLPWPNLPENEQQWPVRSINHAS LISALSRDYRNK\PSAGAPQRKMPLDDT KLIIHQTLQRLRKILWENISGESTKSSTDF AYQFGCRES\QVSLGLFPFVHQSDVT DEMLSFFLTFRGLRVQMGPVFTEQIIQ TFLNMFTRQLAESILHEGSTGCRVVEKF LKILQVVVQEPGQVFKPFLPSIALCMEQ VYPIAERPSPDVKA\ELFELLFRTLHHN WRYFFKSTVLASVQRGIAEEQMENEPQ FSAIMQAFGQSFLQPDHILFKQNLFYLA TLNTKQKL\YHKK\IFR\TAMLFQFVNVL LQ\VL\VHKSHDLL\QE\EI\GHRHSYNMAS VDF\DGFFAAFLPEFL\TSC\DGVDANQK SVLGRNFKMDRVRRERGRAKRRAEWA RKPGTCAARRGHIEASGRGLCPPCSLAA AHEMPADLV
6153	14204	A	6916	1	321	
6154	14205	A	6917	1	259	
6155	14206	B	6918	1	3045	MPDCTSKCRSLKHALDVLSVVTKGSEN QIKAFSSHHCYNAATIKDVFGRNALHLV SSCGKKGVLDWLIQKGVDDLVDKESG WTALHRSIFYGHIDCVWSLLKHGVSLEYI QDKEGLSALDLVMKDRPTHVVFKNATGC LLDPNGEKCVTAPRQVSALHHKDIALSL VAASDGATVCVTTRGDIYLLADYQCKK MASKQLNLKKVLVSGGHMEYKVDPEHL KENGGOQKICILAMDGAGRVCWRSVNS SLKQCRWAY
6156	14207	A	6919	1	1149	
6157	14208	A	692	3	546	PAPPGRVFAAWPGSEEARVLVVLKGCA CRAGLFKMYPLPMTEVCTKSSTVTWF CFAAYESLFETPFAIGVSVLVPSWGLTL ALS*VCFAAFA*LLASLFSQDPLVSPSAA MWASPACFCAEPSSAAIGVSSPSSSVFTQ QS**GSPLAGSASASAKNMARARSVAPP RNGRPGNTNADS

6158	14209	A	6920	426	2967	HSAPPAVLRGGMSEAGGAGPGGCGAGA GAGAGPGALPPQPAALPPAPPQGS CAAAAGGSGACGPATAVAAAAGTAE GPGGGG SARIAVKKAQLRSAPRAKKLEKLG VYSA CKAEESCKCNGWKNPNPSPTPPRAD LQQ IIVSLTESCRSCSHALAAHVSHLEN VSEE EMNRLLGIVLDVEYLFCTVHKEED ADTK QVYFYLFKLLRKSILQRGKPVVEGS LEK KPPFEKPSIEQGVNNFVQYKFSHL PAKER QTIVELAKMFLNRINYWHLEAPSQR RLR SPNDDISGYKENYTRWLCYCNVPQ FCDS LPRYETTQVFGRTLRSVFTVMRRQ LLE QARQEKDKLPLEKRTLILTHFPKFL SMLE EEVYSQNSPIWDQDFLSASSRTS QLGIQT VINPPPVAGTISYNSTSSSLEQPN AGSSSP ACKASSGLEANPGEKRKMTDSHV LEEA KKPRVMGDIPMELINEVMSTITDPA AML GPETNFLSAHSARDEAARLEERRG VIEFH VVGNSLNQKPNKKILMWLVGLQNV FSH QLPRMPKEYITRLVFDPKHKTLAL IKDG RVIGGICFRMFPSQGFTEIVFCAV TSNEQ VKGYGTHLMNHLKEYHIKHDVNL FLTY ADEYAIGYFKKQGYCKEIKIPITK YGGYI KDYEGATLMGCELNPRIPYTEFS VIIKK AE/EGIIKKLIERKQAQIPKKFTL GLSCFK DGV RQIPIESIPGIKKA\GWNPSG KEKSKE PRDPD\QLYSTLKSILQQVKSHQ SAWAF MEPVKRTEAPGYEVIRFPMDLKT MSE LKNRYVYVSKKLFMADLQRVFTN CKEYN AAESEYYKCANILEKFFFSKIKEA GLDK
6159	14210	A	6921	1	184	
6160	14211	A	6922	114	384	
6161	14212	A	6923	141	1741	
6162	14213	A	6924	1	153	
6163	14214	A	6925	1	200	
6164	14215	A	6926	2	242	
6165	14216	A	6927	132	251	
6166	14217	A	6928	132	251	
6167	14218	A	6929	2231	2578	PLPPGSRTLHWMAPDEEDFRIGN* TMNA IFFFLFLFFFFFFFLRQSFALVVQ AGVQW HDLSSLQPPPPRFK*FSCLSLPSG WD*RH APPRPAIFVFLVEMGFHHVNQDGL LLT W
6168	14219	A	693	3	389	DAWVDPRFRLIFLTLTGKTMAVD LEPN DTIANAKA*IQDKEGIPPDQQLIF AGKQ LENGRTLDPDYIIHKESTLLLVLRL KGGMQ IFVKTLLTA*TISLQAEPSTIHN V*EKIQD KESIPPDQHTVIL
6169	14220	A	6930	2	94	WRDLGSL*PPPPGFKRFS*LSLK SHPNVT S
6170	14221	A	6931	130	295	GIISNADFVSFFFF*DGVFALVAQ AGVQ WRGLGSLQPLPGFKRFSCSLPSTW
6171	14222	A	6932	3	403	TYKILDFIVNSIRHRRGTFRFP GHTEVTS MTLDFIGAG*/SNLQ*PAST*PGD QY*I*L LQST*NYVLHKFQLPTWKGRSEI SEQAV SAKEKT*KS/T*LALVK*ARTLES NWP/L *ILILISLSCMIWTNDSNLF
6172	14223	C	6933	78	335	MWSPLTKEIFSCPTPQTGAFKGT LKRA PXXXXXXXXXVKIGXXXXXXXXXXXX X XVSPRPLSARVLAPCLGCDFFV SFNR TTV WK*
6173	14224	A	6934	1	143	
6174	14225	A	6935	1	1676	
6175	14226	A	6936	1	161	
6176	14227	A	6937	61	742	
6177	14228	A	6938	7	238	
6178	14229	A	6939	1	213	

6179	14230	C	694	70	225	MNIQYIQHESVYQNV RPSQRESTGRWSH CCPSQGRSRRIPFTVEEIQQHGV*
6180	14231	A	6940	1	257	
6181	14232	A	6941	3	279	GSGWDGRGQSGRVADSS*ARVLSALARE VNKIRLQDLRSCLSPKPPQGEEQQGQED EVVLVEGPTLPETPRLPLKIRCRADLVR LPLRMVSA
6182	14233	A	6942	73	816	
6183	14234	A	6943	1	484	
6184	14235	A	6944	1	1758	
6185	14236	A	6945	1	1420	
6186	14237	A	6946	186	209	QLWPN*LLSRNKEATLRYSQLPTCHSICY *MPAF*HTISDL SFNKNINCKSYHLRVFY KYV*IVCHF*VPKVYWTYYYQTSCRT*W R*SGVE*PIISSSSSACLLRRLPTEGTCF EIFWNPRLGISAECRDSCGPTSF
6187	14238	A	6947	2	2948	
6188	14239	A	6948	1	616	
6189	14240	A	6949	1	1913	
6190	14241	A	695	277	396	EAP*HPDFIKNMITGTS*ADCAGLIVAAG GGVFKSWDLQK
6191	14242	A	6950	3	185	
6192	14243	A	6951	112	569	
6193	14244	A	6952	1	1210	
6194	14245	A	6953	75	333	
6195	14246	A	6954	271	512	GAVGRPRSQQKSIGVPGWVSPGF*ECGK RRMTFVLLKHIMLLFPARFQQIMRNIPRR LAEHMQQLFSSCPSLMRAFEVT
6196	14247	A	6955	2	184	
6197	14248	A	6956	13	163	
6198	14249	A	6957	627	847	
6199	14250	A	6958	3	144	
6200	14251	A	6959	1	2008	PAAADARRPR SAPATMRPRKAFLLLLL GLVQLLAVAGAEGPDEDSSNRENAIEDE EEEEEEEDDEEEDLEVKEENGVLVLND ANFDNFVADKDTVLEFYAPWCGHCKQ FAPEYEKIANILKDKDPPIPAKIDATSAS VLASRFDVSGYPTIKLKKQQA VDYEGS RTQEEIVAKVREVSQPDWTPPEVTLVL TKENFDEVVNDADIILVEFYAPWCGHCK KLAPEYEKAAKELSKRSPPIPLAKVDAT AETDLAKRFDVSGYPTLKIFRKGRPYDY NGPREKYGIVDYMIEQSGPPSKEILTLKQ VQEFKLDGDDVIIIIGVFKGESDPAYQQY QDAANNLREDYKFHHTFSTEIAKFLKVS QGQLVVMQPEKFQSKYEPRSHMMDVQ GSTQDSAIDFVLKYALPLVGHKVSND AKRYTRRPLVVVYYSVDFSF DYRAATQ FWRSKVLEVA\KDFPEYTFIAI DEEDYA GEVKDLGLSESGEDVNAAILDESGKKFA MEPEEFDSDTLRELVTAFKKGKLPVIK SQP\VPKNNKGP\VKVVVGRTFDSIVMDP KK\DVLI\FYAP\WCGHCKQLEP\VYNSL A\KKYKGQKGLVIAKMEAP\ANDVPQRP AIRVEGFPTIYFRPPVGDKKDPS/VKFEG GD\RDLEPFEPFIEEHA\TKLSRT\KEEL
6201	14252	A	696	549	707	SQNFWRPMWADHLRLGVRDQHQHGE TPSLLKIQKLAGHGGGRL*SQLVRKLR
6202	14253	B	6960	137	214	ASQFPIEWRPVKDAATVDSEPALPQQ*

6203	14254	A	6961	1	625	PSLKGQKLELHRGAAALELVDPPGCRSG LVHARGCTYSQWRSRHPFCCSRGPLA MAGILFEDIFDVKDIDRKAKKF\DRV\SRL HCESESFKMDLILDVTIQIYPVDLGDKFR\ LVIASITLYEDGTLDDGEYNPTDDRPSRA DQFEYVMYK\VYRIEGD\ETSTEAATR\ LSAYVS\YGGLL\MRLQGDANNL\HGFEV DSRVYLLMKKLAF
6204	14255	A	6962	1	273	
6205	14256	A	6963	135	233	
6206	14257	C	6964	198	449	
6207	14258	A	6965	1	1278	
6208	14259	A	6966	1	325	
6209	14260	A	6967	525	661	TEILSGSLGSEIFTTSES*RPGLGPSFVIFLF SSSVCLNIFFRVL
6210	14261	A	6968	1	293	MAGTPPPALLPPCSLISDCCANNQRDSV GVGPSEPGAGYNLVVRSFLSPSEKRSVR VGVTRLFQGRPSPLSLTQKGNP\LTPCAS QFTSTISDGRIMV
6211	14262	A	6969	1	1372	
6212	14263	A	697	82	417	AFQEMELKRPQEEDVAALPEGMRPHSN LYGFSWE*VICAADVGLFAALFFLWRSF RTVRIHVGREKRLALMLSGLNQ*KSEL LGHCILAQNEYDGYELDE*FVDLRVDKE
6213	14264	A	6970	2	277	KNEMTLDAYIFLADMAAYQEEQMQLP RADAIRSLIDTFSLIEHLQGLSQAVPRH TIRELLGQQPISSLI*I*DSYPHPLHLRVEN SGEV
6214	14265	A	6971	434	563	ETTFYNEQRGPQPHLPEVKKKYRGN*EA KTK*LRPENWKGDL
6215	14266	A	6972	197	1247	ALVRLDSWMGLNTTANLGGGMTEMAR GVTPWICPRSSAERARSIPAAMVPISVK ISGPQLLIGPNPPGSKRWARNSSCSSEH CR/SQGAQEESCLAQHH/TPSAPSQMT*T PNC*CAGAPLAAVHR\GITQRCQMNEVQ VAHMPITLP*ETGDHNAELSGAPAIYLP QGAQHSPVH*DQLL*FPIS*TY*EPTKLQ DLLRTKSPGGTPQLFCFAH/ALPAVPQAQ VLGLLQIMSGSPQSLRAPSLQSGLQTRLL GMSLVHLHNLAQVLEDPQQLVAPP/T/D YQGCFLGSKLWLPTQLSN/VCSAPSSAAF LEAAPGSLDPRPPGFVVPSPGLPGGGGS VPAALFAPAPPT
6216	14267	A	6973	232	476	IFVSSYYHVNLFRRFT*AHSSSH*TNPQD LYPYQHGNKVKDIPGTLPENRKVG*PL KKDLQDENKQDKPSCHLQGLQWP
6217	14268	A	6974	442	698	
6218	14269	B	6975	546	1820	LLNCPLFCYGLTSVLHVTCFFSHHGYY DTSKDNQAKQPKDEIDAAEDATDFRH LPDVLKQCIPMIQASQPADSAVPATSGK VYGTPETELTYPTNIEAAPLAEHASSA TSITECDKLSSFATSVAEDQSVASLTAPQ TEETGKSSLLDVTSTIPSSRIEATQGLD YVPSAEDKGFKSPCEDFSVTGESEKRG EIIKGKLSGERAVEEEEEETAHVEMSEKL CSQYGTVPFSAPGHALHPGEPALGEAEE RRLSPDDSTVKMASPAPSGPPSGTHTPFH ESPVEEKSEPQDFQEADSWGDTQRTTSV GKRKAAEELRCLVRTGRSIRGLSLPPACT RAERREVERVVVDALSGLKGDLAGRY RLSEMTEAEQQQLIDHFLDKPVSPLLT AAGMARDWPDARGIWHNNEKSFLIWW N*
6219	14270	A	6976	2	480	
6220	14271	A	6977	1	2043	
6221	14272	A	6978	1259	1497	

6222	14273	A	6979	2	425	
6223	14274	A	698	751	1063	FYQDKRHQP GIVAAACNPFGRSRQEDLL RS*VGDQPGQHSESPSMQKI*KL AGHGG AHV*S*LLRRPRQDNPLSPGGQGCSVL*S HHCTPAWATQGDGPGSKSKN
6224	14275	B	6980	259	329	XFRKKEQ QIKQCKGTAGQALIKE*
6225	14276	A	6981	1	1251	
6226	14277	A	6982	1	421	
6227	14278	C	6983	120	371	MSAHSHPCTCINGHTPV SITYXXXXXXGG PFKRTLGGPKFNGGGQKIFFMGGGLFK PSLGFLEKNLFXXXXTYGATPPPKFKP*
6228	14279	A	6984	76	251	ALKFCRGVFIPIFPQKKFLFQNSPGGFFF PPLKEKNFSFPP*KSSSPKPLNFVGGFFP FFPPP/NKKFLFQNSPGGFFFPPLKEKNFS FPPPVKFGPPQGSF*TPPP
6229	14280	C	6985	193	315	MGGQLKPSLGFLEKNLFFGGEKNHGX XXKFKPLGXXXXF*
6230	14281	C	6986	363	413	
6231	14282	A	6987	1	1088	
6232	14283	A	6988	64	1279	LAPGAVGKGRGHTLPCSAARMGVKAS QTGFVVLVLLQCCSAYKLVCCYTSWSQ YREGDGSCFPDALDRFLCTHIYSFANIS NDHIDTWEWNDVTLYGMLNTLKNRNP NLKTL SVGGWNFGSQRFKIASNTQSR RTFIKSVPPFLRTHGFDGLDLAWLYPGR RDKQHFTTLIKEMKAEFIKEAQPGKKQL LLSAALSAGKVTIDSSYDIAKISQHLDFIS IMTYDFHGAWRGTTGHHSPLFRGQEDA SPDRFSNTDYAVGYMLRLGAPASKLVM GIPTFGRSFTLASSETGVGAPISGP GIPGR FTKEAGTLAYYEICDFLRGATVHRTLGG QVPYATKGNQWVGYYDDQESVSKSVQY LKDRQLAGAMVWALDLDFFQGSFCGQ DLRFPLTNAIKDALAAT
6233	14284	A	6989	3	174	
6234	14285	A	699	3	17	
6235	14286	C	6990	116	181	MCSTSRSRFTN ILKSCNLLKY*
6236	14287	A	6991	20	111	
6237	14288	A	6992	120	426	
6238	14289	A	6993	2	112	
6239	14290	A	6994	24	316	FLFLFFETESCSVA RLECSGAISAHCKLC LPGRHSPASASSQVAGSTGACHQA/QA NFVVFVLVETGFYRVSPG*SG/LSLELVIR PPRPPKVLGLQV
6240	14291	A	6995	80	326	
6241	14292	A	6996	1	233	
6242	14293	A	6997	1941	2223	RTPRMKQSPAPIPCQPTTCSGCMASRAT RTGWTSVCAYCRLFRAHAICVPVALPE MVRALSAQQTLKQIVICGDRQAKDTK ALGAVRPLCLHS
6243	14294	A	6998	211	544	
6244	14295	A	6999	31	230	
6245	14296	A	7	46	1069	ESKHGNFFWVIFLCYCTKEERTQLQKQK TDEYFRMKLQWKSISQEQEKRNSRLRD YRSLIEKDVNRTDRTNKFYEGQDNPGLI LLHDILMTYCMYDFDLGYVQGMSDVFFS PFLYVMENEVD AFWCFASYMDQMHN FEEQM QGMKTQLIQLSTLLRLDSGFC YLESQDSGYLYFCFRWLLIRFKREFSFLD ILRLWEVMWTEL PCTNFHLLCCAILSE KQQIMEKH YGFNEILKHINELSMKIDVE DILCKAE AISLQMVCKELPQAVCEILGL QGSAAVTPDSDVG*RTKMLVNDFLGPT VCISKVTALPTLSASGARNDSP TQIPVSS RCLQD

6246	14297	A	70	170	340	TDSALGSPCLHPTALCAVCGTA*SST/GL VALALMRLELILKSSVPAVMAGIITYNL
6247	14298	A	700	3	443	
6248	14299	A	7000	1	861	
6249	14300	A	7001	55	406	
6250	14301	A	7002	1	361	
6251	14302	A	7003	1	1725	
6252	14303	A	7004	1	1271	
6253	14304	A	7005	3	329	LIKLCCKAKSCENDLEMGMNLNSKFCKT RYQAGMRNSENLTANNILSKPTRY/QGE LKEIKQDISSLRYELLEESQATGELADLI QQLSEKFGKLNKDHRLRVNKGKDI
6254	14305	A	7006	1	801	
6255	14306	A	7007	21	373	
6256	14307	A	7008	3	63	
6257	14308	A	701	147	437	WYVKKERKKERKQERKKERKKERKKE RKKRKREKKER*REREREGRKEGRKE GRKEGRKEGRKEGRKKGRREGREKERE RKKEREISREYDSEK
6258	14309	A	7012	1	521	MSSKRTKTKTKKRPQRATSNVFAMFDQ SQIQEFKEAFNMIDQNRDGFIDKEDLHD MLASLGKNPTDEYLDAMMNEAPGPINF PQWFSFMLVRSLNAPDPENVIRNAFACF DEVEAPGPIQEDYLRELLPTMGDRFTNEE VDELHREAPIDKKGNFNIGFTRILEHG AKDKDD
6259	14310	A	7013	106	693	TTMSSKKAKTKTKKRPQRATSNVFA MFDQSQIQEFKEAFNMIDQNRDGFIDKE DLHDMLASLGKNPTDAYLDAMMNEA PGPINSTMFILTMFGKFKSHRSPEDVI/ RANGLCFCSDEEATGHPFQED/YTLRELL TNPWGD\RFDPGGKWMNLYQRKHLIGP KKGEFSNYIGVHHGILTGRPPKHKDDLK ELLA
6260	14311	A	7014	78	188	
6261	14312	A	7015	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6262	14313	A	7016	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6263	14314	A	7017	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6264	14315	A	7018	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6265	14316	A	7019	2	94	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6266	14317	A	702	505	637	CLLNSIYRRHQGR*DGKERKKDRKKE RKKERKKERKKERKKERKKE
6267	14318	A	7020	1	418	RRLRTAMKLRSRHPDQTHWDQYINKA HLGAALQANPLGGAHAHAKGIVLEKVRV EATQPK\SAIMK/CVRVQLIKNGKKITAF VPNDGCLNFIEENDEVLVAGFGRKGHAV GDIPGVRFKVVKVANVFILALYKGKKER PRS
6268	14319	A	7021	2159	2334	SATNYRNLTVLELGNSTHRHSHKTNST* KNCTRIPTSQLNK*VKKHQSHICQSNCP F
6269	14320	A	7022	1748	1821	
6270	14321	A	7023	2179	2485	
6271	14322	A	7024	3	502	TARAWLLGPVWPCVSEWSKKPSPRG GRDPSDRDPAFAARSTVPPRISAYERPV PWPGEWNPGRPGRRASAVVSPREGNV GVLDPRLQARKPRMVRSRQMCNTNMS VPTD/GCCNHLTDSSFGTRDPG*TKAIAF EVIKVCWCTKRHLYYERGSFLSWPVYY D
6272	14323	A	7025	89	291	

6273	14324	A	7026	1295	1429	
6274	14325	C	7027	332	763	MTGCLNFIEENDEVLVAVIWSQKVMML VIFLESXFKVVQSSPMVSLALYKWL ETKIINMNGENTVVINFHMPKNVCILLSP VLTTKIMFITTTTPPYFFYPKPVNAGPVP LGNNKTGLFQDSLELITFVTWHSFPHVE *
6275	14326	A	7028	89	184	
6276	14327	A	7029	2	274	LDLDKSIKIVKKLKTGFYKIFKNTSFI/ KDIVFMRTWYPVSIPAFYNPVTSLKPV/ GEKDTWSGMWTGHLGL/AHGVRLKTN KDSLYKGLV
6277	14328	A	703	220	476	HNSLVVYFYEIWSRILFVYSCSIHTSVVT H*SLSLGHLKYIWAGHGVSHL*FQHFG RPRWENHLRPL*DPQGQHSETPSLLKK
6278	14329	A	7030	178	619	PPRHVQLNHAEFEDQDDEARVQYEGFR PGMYVCVEIENVPCEFV*NFDPRYPILG GLGNSEGNVGYVQ/IPITPQGTGFLAIQSV SGIMPDFRIAATGVVLDLDKSIKIVKKLK LTGFYKIFKNTSFIKGMFNSALEVAKFE GAVF
6279	14330	A	7031	159	484	DPITPQGTGFLAIQSVSGIMPDFRIAATGV VLDLDKSIKIVKKLKTGFYKIFKNTSFI KGMFNSALEVAKFEGAVIRTISGIRGQIK KAL*APEGAFRASFEKLL
6280	14331	A	7032	19	3881	IATMEAKDQKKHRKNSGPKAAKKKKR LLQDLQLGDEEDARKRNPKAFAVQSAV RMARSFHRTQDLKTKKHIPVVDRTPLE PPPIVVVMGPPKVGKSTLIQCLIRNFR QKLTEIRGPVTIVSGKKRRLTIECGCDIN MMIDLAKVADLVMLIDASFGEFEMETFE FLNICQVHGFPKIMGVLTSLDSFKHNKQ LKKTKKRLKHRFWTEVYPGAKLFYLSG MVHGEYQNQEIHNLGRFITVMKFRPLT WQTS
6281	14332	A	7033	182	374	
6282	14333	A	7034	2	198	
6283	14334	A	7035	1	457	
6284	14335	A	7036	2	145	
6285	14336	A	7037	55	193	
6286	14337	A	7038	564	882	
6287	14338	A	7039	257	513	KFFSFLSSACCLEQVLCFVLFVFFVFLLLII FSFFFSFSSFFSSSSSSSSSFFSFFFLR WS/PRSVAQAGVQ/WS*FGSLQPP
6288	14339	A	704	1	554	DLILNHLFFCFVIRQQFSFLFFPSFFHFFI AMLTHQSYVIFLSVYTVIIHLDFYISLFLT YDIMYF*TKINT*AKLLLIYENMLIVL*CS AFLSNYTVLIVQIIASLIHSSTK*ISQCANII KI*IIHL*L*SSVEINSYL*LFCYLVYSAIL ELVLQSQFSYYMYILRIIQLDFLNEEMHI
6289	14340	A	7040	936	1317	ILVLHGCFCWYYLCLSMYFFNFEME SRSVAQAGVQWCA/DLCSLQAPPAGFTP FSCLSLPSSWDYRHPPRLAKFFVFLVET GAFHRVSQDGLDLTSGDPPTSASQSAGI TGVSHRARPLKHL
6290	14341	A	7041	1	1218	

6291	14342	A	7042	1	1169	MAPPSPSTTSSNNSSSSNSGWDQLSKT NLYIRGLPPHTTDQDLVKLCQPYGKIVST KAILDKTTNKCKGYGFVDFDSPAQAQK AVSALKASGVQAQMAKQEQDPTNLYI SNLPLSMDEQELENMLKPGQVISTRILR DSSGTSRGVGFARMESTEKCEAVIGHFN GKFIKTPPGVSAPTEPLLCKFADGGQKK RQNPKNYIPNGRPWHREGEVRLAGMTL TYDPTTAAIQNGFYSPYSIATNRMITQT SITPYIASPVSAYQVAKETRENKYRGS KVSQSPWMQPPYILHDPGAVLTPSMEH TMSLQPASMISPLAQQMSHLSLGSTGT MPATSAMQGA YLPQYAHMQTTAVPV EASGQQQVAVETSNDHSPYTFQPNK
6292	14343	A	7043	1	743	
6293	14344	A	7044	2	171	
6294	14345	A	7045	1	350	
6295	14346	A	7046	2	1685	
6296	14347	A	7047	47	218	
6297	14348	A	7048	3	1716	GRCCCFSPDGKALAVGLNDGSFLMANA DTLEDLVSFHHRKDMISDIRFSPGIWPVI GEVTDVTASCLTSDKMVLATGDDLGFV KLFRYPTKASSEQGPPTARETPDKQCRQ EKETYRATAPSIHIWDAMNKQTLILRC YHSKGVCVSFSATGKLLSVGLDPEHTI TIWRWQEGAKIASRAGHNQRIFVAEFRP DSDTQFVSVGVKHVFWTLAGRALLSK KGLLSTLEDARMQTMIAIFGAGKILVG TRNAEIIIEVGEKNAACNILVNGHVDGPI WGLATHPSRDFFLSAAEDGTVRLWDIAD KKMLNKVNLGHAARTVCYSPGDMVAI GMKNGEFIILLVSSLKIWGKKRDRRC DIRFSPDSRYLAVGSSSENSVDFYDLT TLNRISYCKDIPSFVIQMDFSADSSYLQV SSGCYKRHVYEVPSGKHLMGSSAIDRIT WATWTSILGDEVLGWISRAEKADVNC ACVSHSGISLVTGDDFGMVKLFDFPCPE KFAKHKRFLGHSPHVTNIRFTSGDRHV SAGGDDCRLVTFSAAHEEQTMILLVKRLN TTTTALVYEIS
6298	14349	A	7049	1	5853	
6299	14350	A	705	1039	1560	SLVLDLTGLPRPTSPSHERGLDSSSSGPG LSTGP*ECSPDPNPMCPKVLPGPDQRCW NSHSTAPIAFPEPVRSR*SGSWTPVPATG ATLNPRCQRGLAIPNSLVSSP*GPAGWRE LPSSQQAHPHPKR*GALRSENREQPDQ GCGNCFVKYGGRVGRVGYSGPVRTGCS RASN
6300	14351	A	7050	1	426	LKQQIEEQRVQVQVVERAQQVAVQE ARAEAEQMAKKA E/AFQLYQEAQLDM LLEKLPQVAEEISGPLTSANKITLVSSGS GTMGAAKVTGEVLDILTRLPVESVERLT GVTILPRLNHKAF*RTALSLQPSQMPSLI AE
6301	14352	A	7051	162	1449	
6302	14353	A	7052	57	389	

6303	14354	A	7053	162	1581	TMFFTCGPNEAMVVS GFCRSPVMVAG GRVFLPCIQQIQRISLNTLTLNVKSEKV YTRHGVPI SVTGIAQVKIQGQNKEMLAA ACQMFLGKTEAEIAHIALETLEGHQRAI MAHMTVEEIYKDRQKFSEQVFKVASSD LVNMGISVVSYTLKDIHDDQDYLHSLGK ARTAQVQKDARIGEAEAKRDAGIREAK AKQEKVSAQYLSEIEMAKAQRDYELKK AA YDIEVNTRRAQADLAYQLQVAKTKQ QIEEQRVQVQVVERAQQVAVQEIEARR EKELEARVRNPAE\AERYKLERPAEAEKS QLIMQAEAK\AASVR\MRGEAEGLCP*GP EPRAE\AEQMA\KKAFAF\QLVPRGVAQL DMLRRESCPRWQEE\SGPLNFSPIRSPLV SSGSGTMGAA\KVT\GEVLDILNSPCVES VER\LTGREHLPRVNHKPLKNSLEPSAL HRCPASLAEVALNDPPVACNPLGLPEHV H
6304	14355	A	7054	1	327	
6305	14356	A	7055	1	202	
6306	14357	A	7056	1	493	
6307	14358	A	7057	409	521	
6308	14359	A	7058	296	869	
6309	14360	A	7059	1	848	MPGLRVKMPGPGISQDEAVWSMDDNF EVNKQHPVWRAATLAKDCKNQSAAV TVYNKPASFFKEAPLDLQHRLFMKLGST HSPFRARVFFCSFISEPEDPATERLAFTER DAGSRLVTLLHERPALLVSSTSWTGKGP LREYYSR LIYQKHFQHIQVCTPWLGAED YPLLIGSADLG\VCLHTSS\SGLDLP/L*KV VDMFGCCLPVC AVNFKVFT\ELVKHEEN G\LVFEDSEELAAQLQMLFSNFPDPAGKL N\SFRKNLPESQQL*WDES WVQTVLPLV MDT
6310	14361	A	706	644	930	EGSHGLGVVAHACNPSTLGNRCGV DHL SSGVQGGQPGQHGT PFLQKIQLAGHG GTRL*SSYLRLRWEDEGGRGCSEPRSRH CTPAPWATE*DPV
6311	14362	A	7060	738	1902	FHHLTETNSPNYFITMALNVAPVRDTKW LTLEVC RQFQRGTCRSRDEECKFAHPPK SCQVENGRVIACFDSLKGRC SRENCKYL HPPTHLKTQLEINGRNNLIQKTA AAML AQMQMFMPGTPLHPVPTFPVGPAGTN TAISFAPYLAPVTPGVGLVPT EILPTTPVI VPGSPVTVPGSTATQKLLRTDKLEVCR EFQRGNCARGETDCRF AHPADSTIMDTS DNTVTVCMDYIKGRCMREKCKYFHPPA HLQAKIKAAQP/QAAATVMTQSTAKAM KRPLEATVDLAFPPGALHPLPKRQALEK SNGTSAVNPSVLHYQQAL TSAQLQQH AAFIPTGSVLCMT PATSIVPMMHSATSAT VSAATTPATSV PFAATATANQIILK
6312	14363	A	7061	1	240	
6313	14364	A	7062	3	354	
6314	14365	A	7063	1	621	
6315	14366	A	7064	362	720	
6316	14367	A	7065	1	2610	
6317	14368	A	7066	122	1840	
6318	14369	A	7067	1	1433	
6319	14370	A	7068	3	324	
6320	14371	A	7069	3	421	
6321	14372	C	707	185	397	
6322	14373	A	7070	3	552	
6323	14374	A	7071	3	600	
6324	14375	A	7072	3	550	
6325	14376	A	7073	1	102	

6326	14377	A	7074	3	1451	GAVRTWGRGFQTEKCOASLLNFWNPPT TAQVTIEAEPKTVSKGKDVLLLVHNLPO NLAGYIWKYKQMKDLYHYITSYVVDGQ IIHYGPAYSGRETIVYSNASLLIQNVTRDA GSYTLHIVKRGDGRGETGHFTFTLYRH SLDSALSLEVTGSSQPL*DTWENCPTLW LHCLMTELTSGLDSPVPCVSAEVPSPRS GFPVSKGFKDNWKFHHPSLGCPWQGKL QRKHTSGGKVRLKLRRFQHCLMQVRTT SÆETPKPSISSNLYPREDMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSASRS DPVTNLNLPKLPKYITINNLNPRENKDV LAFTCEPKSENYTYIWWLNGQSLPVSPR VKRPIENRILIPSVTRNETGPYQCEIQDR YGGIRSYPTLVNLYTTKHSGLYACSVR NSATGMESSKSMTVKVSAPSGTGHLPL NPL
6327	14378	A	7075	3	435	
6328	14379	A	7076	79	1516	
6329	14380	A	7077	9970	11210	MKDACGGIKGATQDNLLSTQ/PKLPMP YITINNLNPREKKDVLAFCEPKSRNYTY IWWLNGQSLPVSPRVKRPIENRILIPSVT RNETGPYQCEIRDYGGIRSNPVTNLVL CEYPLFLCGPGHQLNSKRPEARPLSLSPV QV*TLLLDIRPGHDSLPEWILGRHSLNQ EYKGRGALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHRLCLGSEGHCVPLR DQEHPLPLDDITCGFILPPDGPDLRIYP SFTYYRSGENLDLSCFADSNPPAEYSWTI NGKFQLSGQKLFIPQITTNHSGLYACSVR NSATGKEISKSMIVKVSCKWIPASLAIGF *VESIWLSEKSENICIPRLCPMGTSKSOI LLNPPNLSLQTLFCLFFCFLMADLVSGL RKVGRGLYQP
6330	14381	A	7078	460	1832	QPVLEFLDPRLISTEENTQAETMGTL APPCTQRIKWKGLLLTASLLNFWNLPTT AQVTIEAEPKTVSEKGDVLLLVHNLPO LTRATIWYKQMRHLYHYITSYVVDG EIIHYGPAYSGRETAYSNASLLIQNVTR DAGSYTLHIKRGDRTRGVGTGYFTFNLY LETPKPSISSNLPREAMETVILTCNPET PDASYLW*LNGQNLPMTHSLQLSKAN RTLYLFGVNTNYTAGPYECEIWELRECQ ARSDPVTPEFSSRKLKPKYITINNLNPGE *GCL*TFICEPKSENYTYIWWLNGQKPP/ VSSPRVKRPH*KTGSLIPTPVFTRKWQK PYSMWNYGDRYGGIRSLPSSPLNCSSYG SRTSPRILPFHFTYVYRFREENLDLFLGFT GIFNPPAQYSWDN*WKSFLTRGQKLF YSGHITTKHSGLYVC'SVRNSATWQGKA PNP
6331	14382	A	7079	2	315	RWSLCPLQAGVQWRDLCSLKPPPEFKQ FSCLSLPSS*DYRCPPPCANF/SFFVFLV ETGFHHVQAGLNLTSRDLLTSASQSA EITGMSHCPRPTLSNSRVL
6332	14383	A	708	3	521	CKMDAGFFRGTSAEQDNRVSNKQKWL LKQLKFAECLEKKVDMKVNLEVIKPV ITKRVTEILGFEDDVIEFIFNQLEVKA*T KMEVIPCV*SIAPSPY*VTAE*VSQCRSDP TPLMMQCVFGWNPDSKMMQINLTGFLNG KNAREFMGELWPLLLSAQENIAGIPSAFL EL
6333	14384	A	7080	1	534	
6334	14385	A	7081	1217	1545	

6335	14386	A	7082	2	1665	KKKKKQKNKKSSTGEASENGLEDIDRIL ERIEDSTGLNRPGPAPLSSRKHVLYVEHR HLNPDTELKRYFGARAILGEQRPRQR VYPKCTWLTTPKSTWPRYSKPGLSMRL ESKKGLSFFAFEHSEYQQAQHKFLVAV ESMEPNIVVLLQTSPIYHVDLLQLSDA CRFQEDQEMARDLVERALYSMECAFHP LFSLTSGACRLDYRRPENRSFYALALYKQ MSFLEKRGCPRTALEYCKLILSLEPDED LCMLLLIDHLALRARNYEYLIRLFQEW AHRNLSQLPNFAFSVPLAYFLLSQQTDLP ECEQSSARQKASLLIQQALTMFPGVILLPL LESCSVRPDASVSSHRFFGPNAEISQPPA LSQLVNLYLGRSHFLWKEPATMSWLEE NVHEVLQAVDAGDPAVEACENRRKVLY QRAPRNIHRHVILSEIKEAVAALPPDVT QSVMGFDPLAPSDTIYSYVRPERLKSL SHGNTIALFFRSLAPNYTMEGERPAEEG VAGGLNRNQGLNRLMLAVRDMMANF HLNDLEAPHEDDAEGEGEWD
6336	14387	A	7083	420	627	
6337	14388	A	7084	2	380	
6338	14389	A	7085	2	657	
6339	14390	A	7086	2	842	
6340	14391	A	7087	174	463	GSLKQGMFPSGLNRRLPTESPLQILRATF L*KEVA*GLHQYHLPLAQLLSGPVFGLTH LQSAPVFREKPDPPPELPSLRVLRRTLDS WGARTHNYGI
6341	14392	A	7088	69	194	
6342	14393	A	7089	1348	2204	TWRLDPQIISPKPQPGGTYTLEVVKSSK SKKVLSHP*WPPLRLWQR\GGSPEGGT QAPDGLPPPPRPSERVGSPKLSGGKR /EGSHPGGPPHITHP/DGEEKAKSSWFG REAKDPTQKPSHPVKPLSAAPVEGSPD RKQSRSSLSIALSSGLEKLTVTSGSIQPV TQAPQAGQMVDTKRLKDSAVLDQSAK YYHLTHDELISLLQRRERELSQRDEHVQ ELESYIDRLVRIMETSPTLLQIPPGPPK
6343	14394	A	709	730	983	GAVAHICKSQFGRPRQAHQLRSRV*DQ PGQNDETPSILKIQKLAGHGGTRPLSQL RRLRH*NHLNPGGGGCSELRSRHCIPG
6344	14395	A	7090	2	762	
6345	14396	A	7091	2	218	
6346	14397	A	7092	7	78	
6347	14398	A	7093	553	954	SRSRRGQKRRRWSTVWRLSAGACALSM QTPSRTSWPTAPFRAIWRAETVAAWCRL RRPVWRVWSWSCLPTPITRATPLGARS WPGWRMWPLQAGSAVPTLR*RPLK\F PLPRVPGRRPSGAQSHREOCLQT

6348	14399	A	7094	1	1215	MTLKEHAAFKHLFNKAHLAPPLIHLTSL GHSTCFREHWVGDIVHRDLKLENIMVKS SLIDDNNEINLNKIVTDFGLAVKKQSRSE AMLQATCGTIYMDRGWNSLEGSEQDR KMWDSLELPRDLLNVFEQNADNDMDDD EIQAEVLSGDDEELGNWSKGDSCYVLL KQLAAFCPCRLDLWNFKLERDDLGYLV EEISKQSQIEATWVLLKAFSFIREAEHK NLENLQPDNAIEKKIPFSEEKFKLAAEICI SNQEANVNPQDNEKNVSRACQRSSQQP LPLPRVLGGKSGFVGWAQDSHAEIYTFG RILGKGSFGIVIEATDKETETKWAIKKVN KEKLLLMKSNFLQPVRTTLICAVQVSHL ANSFQLKSREKWRKPL*LKEHAAFKHLF NKAHLAPPLIHLTSLGHSTCFREHWVGD VHRDLKLENIMVKSLLIDDNNEINLNKIV TDFGLAVKKQSRSEAMLQATCGTIYMD DRGWNSLEGSEQDRKMWDSLELPRDLL NVFEQNADNDMDDEIQAEVLSGDDEEL LGNWSKGDSCYVLLKQLAAFCPCRLDL WNFKLERDDLGYLVEEISKQSQIEATW VLLKAFSFIREAEHKLENLQPDNAIEKK IPFSEEKFKLAAEICISNQEANVNPQDNE KNVSRACQRSSQQPLPLPRVLGGKSGFV GWAQDSHAEIYTFGRILGKGSFGIVIEAT DKETETKWAIKKVNKEKSTAYEKQFPAT SKDNFDMCSSSFTSSKLLPAEIKGEMEKT PVTPSQGTATKYPKSGALSRTKKKL
6349	14400	A	7095	1	770	
6350	14401	A	7096	7265	7684	IVSLFLFILLVFWWWCFFFFFFFETVLLFS PRLQCRDVTSAHCNFCFPGSSDSRASAF RVARITGAHHDWTLIFCIFSRRDRVLSWS GWSRTSDLR*SALPKCWDYRCEPPCRA* FFFFLYPLTIPTSLPAPHYPPSLW
6351	14402	A	7097	1	344	
6352	14403	A	7098	3	285	
6353	14404	A	7099	346	517	
6354	14405	A	71	134	450	QSPDSMNAREFRRRGMEMVDYVAYYM EGIEGLLVYPDV*PGYLRALIPAAAPH*L DTCEDIISDAEKIIMPLSHWHSPDLFVY FDSVSSYARMLDMQCGALDC
6355	14406	A	710	108	418	GWGGLLIARPPFKRGKSSGPVGHKLPRG VGGRRG*NVNLCPKSSNPQGGLGERPRE LRDKATVSALANFTARKGC*LRGPEGGQ PGPRGKLFPGVPGVQGQP
6356	14407	A	7100	3	173	
6357	14408	A	7101	256	352	
6358	14409	A	7102	1	203	
6359	14410	A	7103	1	112	
6360	14411	A	7104	1	1213	
6361	14412	A	7105	3	413	
6362	14413	A	7106	45	537	
6363	14414	A	7107	2	224	
6364	14415	A	7108	179	393	DKWRRLPWKRGVEVGTAGSLAKAFGFF AEAKTEPREGCSSESGVRISYQ*VQQTNS KCLKY*MEPARPTFSP
6365	14416	C	7109	21	410	
6366	14417	A	711	274	394	SPFPKEVGGGKFLNLGGQRFWGPFGKGPL FSAKTKKGTSLK*GFKNPPAQGGKPPFF LKIQN*PTLGGGPLNPHFLRRLGGENF*T SEGKGFGDPNLALCSPPKQKKGLLF
6367	14418	A	7110	3	178	
6368	14419	C	7111	134	295	MNSVPGLAKSVGLLRTRYDSPKQPLLCS EAVVLICKDLRGWQKPGTQGGIG**
6369	14420	A	7112	3	864	

6370	14421	A	7113	3	155	
6371	14422	A	7114	1	122	
6372	14423	A	7115	84	579	NWKAGMGRPSTADYAMFKVVHEVDK YRFTYAYFAGGDAEDAFDGYDFGDDPS DKFFTSVHNGMQFSTWDNDNDKFEGNC AEQDGSQWWMNKCHAGHLNGVYY\QG GTYSK\ASTPNGYDNGIHWATWKTRWYS VMKKT\TMKIIPFNRLTIGEG\QQH\HLGGA KQAGDV
6373	14424	A	7116	19	418	VEMGFCQADQAGLELLTSGDPPASVSQS TGITVLSL\FFFETESRSVAQAGVQWRDL GSLQRPPPG\SRHSPASASRVAGTTGARR HAWLIFLYF/LVETGFHRSQDGLDLLTS *SARLSLPKCWGYRREPSAR
6374	14425	C	7117	207	401	MGXXIFXPLXKTPFFPGVWGKNFSPGP GXPXPPPRGGPPPLFFPQKKGXPPPPFP KVLGLQA*
6375	14426	A	7118	2	681	FFEMESRSVAQAGVQWRDLGSLQAPPP GFTPFCLSLPRSWDYRRPPTLLANFFVF LVETGFHCVSODSLDLLTLRSARL\FFFF ETESRSVAQAGVQWRALGSLQAPPPGAS RHSPASASQVAGTTGARHYARLIFVFLV ETGFHRF\SRDGLDLLTS*SARLGLPKCW DYRREPPRPAVRVYFYNRSVFIEYVQFC KLLFTFKINVR\SNILGSPNILKSLLKNLN
6376	14427	A	7119	3	265	FFFETESRSVAQAGVQWCHLGLSLQPLP\A GSSDSPASTSRVAGV\TITAT*VAGTTVV RHHAWLIFVFLVETGFHHVGQAGLEHL DLR
6377	14428	A	712	59	306	FGTDRTAVQTSSSQRCLCPWVAQKTYW LLVPSSLLKDLKEKKEVVEEA*NGRDAP ANGNAVSVCFAPWPQLPHKIFPVLL
6378	14429	C	7120	359	583	
6379	14430	A	7121	279	566	FRRRFPLISL\FFFFLFFFCFFFETESRSVA QAGVQWRDLGSLQAPPPGFTPFALSPRL ECSGAILAHCKLLPGSSHSPASANRVA GTTGTRHH
6380	14431	A	7122	237	523	PQEFKTS\PGNVARPQLYN\FFFFFETESR SVSQAGVQWCDLGLSLQAPPPG\SHHSPA SAS*VAGTTGAHHHARLL\FVFLVETGFH CVSODGLDLLT
6381	14432	A	7123	1023	1459	KGTRKR\GQGIKVHLPIPILLFNLCFCTFG LFLVFLFLP\FFFFFEEIESHSVAQDGVQ WCNLGSLQPTPPG\SSDSPASAS*VAEITG TRHYAWLIFLFL/VEMRFHHVGQAGLEL TSGDPPASASQSAGIRVMSHRGLVFLYY K
6382	14433	A	7124	1794	4614	RFFS\FFFFFETESHVAQAGVQWCNLGS LQAPPPG\SRHSPASASRVAGTTGAHHH ARLIFVFLVETGFHRISQDGLDLLTS*SA RLGIPKCWDYRCEPHLASI
6383	14434	A	7125	2	441	FFFFFETESRSVAQAGVQWRALGSLQAP PPG\SRHSPASASQVAGTTGARHYARLIF\ VFLVETGFHRF\SRDGLDLLTS*SARLGLP KCWDYRREPPRPAVRVYFYNRSVFIEYV QFCKLLFTFKINVR\SNILGSPNILKSLLK NLN
6384	14435	A	7126	3	226	CETESRSVTQAGVQWSDLGSLQAPPPGAS RHSPASASQVAGTTGAHHHARLIFVLLV ETGFHRVSQDGLDLLTS
6385	14436	A	7127	153	504	KH\FFFFFETESRSVAQAGVQWRDLGS LQAPPPG\SRHSPASASRVAGTTGTRHRA WLIF/VYFLVETVFHRVSQDGL*KLIRE NSIENILVQCKLVYF\SHCSRSEITVTGN NLL

6386	14437	A	7128	3	313	FLFFETESCSVAQAGVQWHDLSLQAPP PVSCHSPASASQVARTTGRHHPRLIFF VFLVEMGFHHVSQDGLDLLTLGSGHLSL PKCWDYRCEPPHPSSPSY
6387	14438	A	7129	3	307	FFFFETESRSVAQAGVQWRDLGSLQAP PPGSRHSPASASQVAGTTGARHYARLIF/ VVFLVETGFHRFSRDGLDLTS*SARLGL PKCWDYRREPPRPAYF
6388	14439	A	713	171	565	TLAFLIPCIGSPACPTMSDAAVDTSSUIT TKGLKRRRRKLWEEAENGKRRPCLTGN AENEGKWSREADNEVHQKEE*CGEEQ EEEEEGDGEEEDGDEDETLSATVTRAT EDEDDDAVAPTQKQTRLDE
6389	14440	A	7130	2	91	
6390	14441	B	7131	3686	14131	MTNAFQYVQKNRGIDSEDAYPYVGQSY YNLVSSSQEESCMYNPTGKAACRGYR EIEPEGNEKALKRAVARVGPVSVAIDASL TSFQFYSGVYYDESCNSDNLNHAFLA VGYGIQKGNKHIIKNSQSAQTVLTPDE CLLLGYLDKGLKRKDKAGSLQWAYM AIARLGGFMDSMPTGIAIWGALX*
6391	14442	A	7132	8044	8378	YIDVKTFFFFLPETESHVAQAGVQWH DLSSLQPLPVGSSDPSASRVAGITGTH HHAWFIFVFLVGTRFHHLGQAGLELLTS SDPPASAPQSAGITGVNHHTQPQKFI
6392	14443	A	7133	3	283	
6393	14444	A	7134	2	177	
6394	14445	A	7135	1	491	
6395	14446	A	7136	3	612	
6396	14447	A	7137	2	137	
6397	14448	A	7138	1	2631	
6398	14449	A	7139	2	112	
6399	14450	A	714	1	1497	
6400	14451	A	7140	67	245	AYNLSDGQYGLVDPEFEYFYLCCWLP L*LGGKCLWVLPVSVSGDRNDNDQAER NGSHL
6401	14452	A	7141	356	2252	RSFLDEEFPHYDSLSCADAIQQLQEKLK QCCHKLYGGQEARIHQTPLTKHTCWY TPLLDALSDSFTAVPTLESTPFSGVANQ IHTLCERPTYGEVKDGDALDVKRQHKCPG PTSGSPGTNLSGCIRMNDSPMEENG ERVCPESLLQSRGYSSLPLPRTSSTDGTI TSSDPGLEILNMASCDLDRNSLCKKEED TRSASPTIEAQGTSPAHDNIAFDSTSKD KTILNLEAKEEPETIEEHKKEHASGDSVV SPLPVTTVKSVNVRQSENTSANEKEVEA EFLRLSLGFKCDWFTLEKRVKLEERSRD WAEENLKKEITNSLKLESPLCEDDN QAQEIKKLEKSIKFLSQCAARVASRAEM LGAINQESRVSKAVEVMIQHVENLKR YAKEHAELEELKQVLLQNERSFNPLED DDCQIKKRSASLNSKPSSLRRVTMALLF LPRNYLGNAGMVAGMENNDRF/SRRSS SWRILGSKQSEHRPSLPRFISTYSWADAE EEKCELKTKDDSEPSGEETVERTRKPSLS EKKNNPSKWDVSSVYDTIASWATNLKS SIRKANKALWLSIAFIVLFAALMSFLTQ LFQKSVDAAPTQQEDSWTSLEHILWPFT RLRHNGPPPV
6402	14453	A	7142	1	835	
6403	14454	A	7143	1	3735	
6404	14455	A	7144	2	1161	

6405	14456	A	7145	126	572	NFSSNKWNTSQNFANMDNSAQKNERTG KHPRRASEVQKNDIPGPGFYNVIHQSPV SNSVSLSKKGTGCMFPSCARLDTIVSKY PAANAYTIPSDFISKRDFSNSCSSMFQLPS FMKALKFET/PLAPNYYNASVSCCKRRN NVCTRAGF
6406	14457	A	7146	1	1261	
6407	14458	A	7147	107	227	
6408	14459	A	7148	3	407	
6409	14460	A	7149	3	608	
6410	14461	A	715	32	3730	NSERRGLGMSLADELLADLEEAEEEEEG GSYGEEEEEPAIEDVQEETQLDLSGDSVK TIAKLWDSKMFAEIMMKIEEYISKQAKA SEV\MGPVEAAPEYRVIVDANNLTVEIEN ELNIIHKFIRDKYSKRFPPEL\SLVPNALD YIRTVKVSAEKELGNSLDKVARAIEEPW QQILT NATIMVVS\TASTPQQGQQLSEE ELERLEEACDMALELNASKHRIEYVES RMSFIAPNLSIIIGASTAAKIMG
6411	14462	A	7150	2	212	
6412	14463	A	7151	3	91	
6413	14464	A	7152	1	115	
6414	14465	A	7153	1	1279	MGDTPRQFGGARPRSGGALRGCRSRGG GNRRGLCLSRALANGDRRLTMDDDIAA LVVDNGSGMCKAGFAGDDAPRAVFP VGRPRHQGV\VMGMGQKDSYVGDEAQS KRGILTLKYPIEHGIVTNWDDMEKIWHH TFYNELRVAPEEHPVLLTEAPLNPKANR EKMTQIMFETFNTPAMYVAIQAVLSLYA SGRTTGIVMDSGDGVTHTVPIYEGYALP HAILRLDLAGRDLTDYLMKILTERGYSF TTTAEREIVRDIKEKLCYVALDFEQEMA TAASSSSLEKSYELPDGQVITIGNE\RFRC PEALFQPSFLGMESCG\IHETTFNSIMK\C DVDIRKDL\YANTVLSGRTPPCTLGIADR MQKEITALAPSTMKIKI\IAPPERKYSVWI GGASILASLSTFQQM\WISKQEYDE\SGPSI VHRKCF
6415	14466	A	7154	1	111	
6416	14467	A	7155	143	295	
6417	14468	A	7156	186	437	
6418	14469	A	7157	3	356	
6419	14470	A	7158	1	220	
6420	14471	C	7159	102	407	MDAGLEAMQKYGKAAPGDRTMLDSLW AAGQELQAWKSPGADLLQVLTKAVKSA EAAA\EATKNMEAGAGRASYISSARLEQP DPGAXAAAA\AILRAILEVLQS*
6421	14472	A	716	3	117	HKRPLMASYLLFFCSFVRVE*TIITCLT** ECHRYNR
6422	14473	A	7160	1	2302	
6423	14474	A	7161	1	178	
6424	14475	A	7162	60	413	

6425	14476	A	7163	2	1420	NSGVGAGARRAARCRAEAAA VGTARS PALGMALLVLGLV SCTFFLAVNGLYSSS DDVIELTPSNFNREVIQSDSLWLVEFYAP WCGHCQRLTPEWKKAATALKDVKVVG AVDADKHHS LGGQYGVQGFPTIKIFGSN KNRPEDYQGGRTGEAIVDAALSALRQLV KDRLGGRSGGYSSGKQGRSDSSSKDVI ELTDDSF DKNVLDSE DVMVEFYAPWC GHCKNLEPEWAAAASEVKEQTKGKVKL AAVDATVNQVLASRYGIRGFPTIKIFQK GESPDYDGGRTSRDIVSRALDLFSDNA PPPELLEIINEDIAKRTCEEHQLCVAVLP HILDTGAAGRNSYLEVLLKLADKYKKK MWGWLWTEAGAQSELETALGIGFGYP AMAAINARKMKFALLKGSFSEQGINEFL RELSFGRGSTAPVGGGGFPATIVEREPWD GRDGELPVEDDIDLSDVLEDDLGLKDEL
6426	14477	A	7164	547	980	
6427	14478	A	7165	3	1290	LYSSSDDVIELTPSNFNREVIQSDSLWL EFYAPWCGHCQRLTPEWKKAATALKDV VKVGAVDADKHHS LGGQYGVQGFPTIK IFGSNKNRPEDYQGGRTGEAIVDAALSA LRQLVKDRLGGRSGGYSSGKQGRSDSSS KKDVIELTDDSF DKNVLDSE DVMVEF YAPWCGHCKNLEPEWAAAASEVKEQTK GRVKLAAVDATVNQVLASRYGIRGFPT IKIFQKGESPDYDGGRTSRDIVSRALDL FSDNAPPELLEIINEDIAKRTCEEHQLCV VAVLP HILDTGAAGRNSYLEVLLKLAD KYKKKMWGWLWTEAGAQSELETALG IGFGYPAMAAINARKMKFALLKGSFS EQGINEFLRELSFGGGSNGTL*GGGGS LPIVEREPWDGQGCGRFPWGDDH*PSV DAEVLDDLGLKDEL
6428	14479	A	7166	335	519	ILFPGSGQLRSSDQKA AKLALL*FQKRS EMYKTK*FWGRKMSQFFSVVRHTNPG SRLWA
6429	14480	A	7167	2	386	
6430	14481	A	7168	311	493	
6431	14482	A	7169	2	82	
6432	14483	A	717	1007	1118	APGPCPNQTLARDSGWVG*KNHQLCTC VCVCVCVCVC
6433	14484	A	7170	51	347	
6434	14485	B	7171	188	353	XDVVVPVANC VQEYNSNPKEHVTLRD YITYWKEYIQAGYSSPRGCLYLKDWHLC S*
6435	14486	B	7172	188	353	XDVVVPVANC VQEYNSNPKEHMTLRD YITYWKEYIQAGYSSPRGCLYLKDWHLC S*
6436	14487	A	7173	753	1216	QVVEVGPPRGRHPSAAGCPSPA*RRWKT RRAGWAARSPAQR RRRRRPAPRRRLP GPEPGRRRGRHPPGLSGCRRGRASRG SSSARVEGPSSSLPPERKR*GPASEPEDA GRRVSAPPAPGARACTHARGSPRSSLR RRAAEARSALGLV
6437	14488	A	7176	27	285	VFFFFFFLRRSLALLPRLECSGTIVFLVE TGFTMLARMV SIS*PRDLPALASQSAGIT GVSHRARPASFNL TINLP LLLWTF
6438	14489	A	7177	12	336	SPVQL*F*FLVFC*LWSWSAVVYLGL GTPSADAHT/AGLSKTPPHWAARALDD VFSLRTFSSHSLNMELVQDLTASAPMYS STSRDPP/CLGLPKCWDYKREPPRAH
6439	14490	A	7178	74	463	HISQHDSYLVLLASYKTASFLFFFLRQ SL/DSVTQAGVQWRDLGSLQAPPGFTPF SCPQSPK*L/SSWDYRRPPRPANFFCIV EKECFLLARMV SISWPRDLPASASQSA GITGMSHRARPAQVS

6440	14491	A	7179	1	412	TRMGLPDASRRRTCRMDPEGWQEAMSS A*GRITLQRLSTGPEGQGGREKVGPEGG SENPOQPKAAGVLSKHLPGAPAPPPQRP PSSPPPLAGPLTERVEKVCDFLDAAGDY LN/GTPG*PSPGESPAAQDPPVPPWPP
6441	14492	A	718	1692	2123	SQPRFSWTQERLRLFPGMLLNSLIVSQAT QGFLKSGCLMAFIFKKMEPSPMSCS PQCFGKPMGRSLSGGQKFKNQAGQYH KTPSLRKSKKLASHGGVHLWS*LLRRLR QEDCLILGIRGCSEL*LHLCTPPSATQRDP LS
6442	14493	A	7180	117	295	
6443	14494	A	7181	279	1065	IQHPRLSADDFRVNCETEPAM/*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNRSQ QIEESTTVVTTQSTEVGAAMTELTR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAEG QCQAEYQALLNIKVKLEAAIATYRRL EDGKDFNLGDTLDCSNSMQTIQKTTR\
6444	14495	A	7182	60	846	IQHPRLSADDFRVNCETEPAM/*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNRSQ QIEESTTVVTTQSTEVGAAMTELTR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAEG QCQAEYQALLNIKVKLEAAIATYRRL EDGKDFNLGDTLDCSNSMQTIQKTTR\
6445	14496	A	7183	645	861	KYYRKRGIHSAIDASQTPDVVFASILA S*ATCKDLVMFI*CWVQEGISFHPCEAM GGNDRTGKEKLPSG
6446	14497	A	7184	2	1327	RPQSLSPVLSLSPDSMSFTTSTSTNYRS LGSVQAPSYGARPVSSAASVYAGAGGS GSRISVSRSTSFRRGMGSGGLATGIAGGL AGMGGIQNEKETMQSLNDRLASYLDRV RSLETENRRLESKIREHLEKKGPQVRDW SHYFKIIEDLRAQIFANTVDNARIVLQIDN ARLAADDFRVKYETELAMRQSVENDIH GLRKVIDDTNITRLQLETEIEALKEELLF MKKNHEEEVKGLQAQIASSGLTVEVDA PKSQDLAKIMADIRAQYDELARKNREEL DKYWSQQIEESTTVVTTQSAEVGAAETT LTELRRTVQ\SLENDLDSMRNLKASLEN SLAREVEA/RRTPLQMEQLNGVLLHLESE LAQTRAEGORQAQYEALALNIKVKLE AEIATYRRLLEDGEDFNF\GDALDSSNSM QTIQKTTPPG*VGLGKVVS
6447	14498	A	7185	2	345	FFFFFETESRSVAQAGVQWRDLSSLQA PPPGSRHSLASAS*VAGTTGVCHHARLI FVFLVETGFHHVSQDGLNLLTS*SAGLG LPKCWDSEKLFFFGDKSFRFCCPGWST MV
6448	14499	A	7186	178	388	RREPLHPANLLLFFFFFFEMESPSVAQAG VQWRDLSSLQAPP\GSCHSPTSLS*VAG RLRNKNCLNPDAW
6449	14500	A	7187	546	850	FSVLFYFFESESCSVLQAGVQWRDLGSL QPPPP\GSSHSPSAS*VAGTTGTCHHTQL IFIFLVETGFHHIGQASLKLLTS*FAHLGL PKFWDYRCEPPHPA
6450	14501	A	7188	4	410	PIERPHELKHLPHVQKLVEDVGDGVIP AALEEGQAGWSHGFLVFLVEIKSAEGP/P GPADSRVRGVRPQRSQSAGPA*RAGRQ DGVCRSLGQGRGGGRATSLVLHPPGY GCWFSVGVPSLPQYTGIRSSSPRTRG

6451	14502	A	7189	148	268	LQPR*PLTCAPPPCPVQTQTHPISVSQTL GLEFCCSLSL
6452	14503	A	719	1	371	HRHCHPSHTVDGRMESIDVATDGG*RTG VLAVSGLSVSLRTAELSTRKLLMNSEQRI NRIMGFHLRGSGAVE*RHTQSMQHDS KLNSLIIPSVSKRVVLVDVCTGTTDHQG GVLERKVTTL
6453	14504	A	7190	397	1449	RSHPSGTGRRTSRLESWFLGVSCCKSKV REGPLGPA**AG*RGVRPQRSQSAGPA*R AGKRQDGG/SPEPRAGVGGEVGTQSP/GP SGASGYPGMLVSKPVGGTSASWLPAGC PIPS*LS*QRSQSPSSCLIGHLLALWAAF GLGVTSLPQYTGIRSSSPTA*ATVQGDSD HKGGTGGTGLGRGRNTQPDAAACGRGHR SSPTR/RPHGNPNNGTGAEGGQARSLLP KLAPKLPGWVPVSPVAVGPGDFGWRO AQYQSSLWDLSSPRNTLGRSATSAGPAP PALLGAGSGRSGTSPAAPGCSSRCHCW ASAPAGVSGGPG\GRGAEAPPSTLAQR GSFPGAIFPPACGIPP
6454	14505	A	7191	47	1654	LHVPARPPGCGGAFLAGGPCGWGQPR AQLWPQ/SAAPGPPHP\PALPSPVFPTWP RLLSH*S/RPA/VEQCPPEPHVYPDPASS WVPKSASPPRVACPPAL*/PFGDSC LCTAGLRGPGHDTLPQVWVRP\HPGAS AEM*AHKPPPLAQKPPRPSISVPQPSAQL WYPAGPWVPT*AGTWLGYGAI*SPQGLF SFYEMEHGVPASLNPPKWEPHDRV*LGG GR*GKSEVPRGTPSLTGLFRGVPQGPPI TGTQKHPPNDMVSFLISFFCLFCFGFQL G*/PPGL*SIHIEPLTGLPGCQG*A*P*VLL STAGSAHAV**GSELVHLQS*LHFPSCF PPVLALDLQVCRPALSAFLACGPPAIPGS WSPEGVPSLWMGVRGVVPLCGLSLYPAL *NLARRGPGQFTGK/IGEGTPTPHKPC NHQVRKLGVLPGGVKTKIEVGFWGPT R/PKAGETRG*VGRVPQSLA*PQCVSPEM LP*LSGTPGRSWG/PVLSPTPAHSQALRL CGHSPPCWSLVIGLELYFDAMKTLFISNV YIF
6455	14506	A	7192	4	496	NRRTERLGRWCPCTGAWPAPVNLAKLA PS/HDSEQVGSGCVPLAQSMAPPGPAWR AGHHRRRSENPRPGFFGSFFKRFGTNR GWSRRDDDPGGPGSGRWPPAPRRGGQ WRCPREPG*RRSSSAGRGSSPCALRHRA TKASSSCSSPCPTPTKRERALAAASC
6456	14507	A	7193	3	514	SVPKREELQGHHRVRGGEHRVWTRQDV LQHRLPATSVWTHPVLPTARAPALGRA SGAARRTAARAAPL\PAVPAAPAAAPGRA RPTTTWPASPPSPRSASPPTAPSSACWSP TP/GSPFALRPLRAGLGAVYTRSAHPRR PLPAHLCLVLRHRATKASSSCSSPCPTPT KR
6457	14508	A	7194	2	324	GGGFRPLFPPLWRPKPVGPVRVEIFGPAC PPWENPFLKIPNLPGVVGPSDYRSFSEG LARKLPLTRKGRFR*PKFPPLPSFLGKKR EIRFPKTKKKIFINSSSSC
6458	14509	A	7195	3	344	ERQKLHYKYKQFLTFLQDWNNTNVKAE EPEEQKLATMFREQQKSCL*ARMVQRQ RH*NKLN*NQQFLRSLEDLEENQSSFTD EQSDLRKEMARLQTKLMKETLQQDLALI HSC
6459	14510	C	7196	68	319	

6460	14511	A	7197	56	945	HRKLDNRNYSRHMGCSPGPEPRRAEPC PP\RCMPTKETGAFRSHTRSLGPF*SLAE PPF\PRVPVSRGPLSASSPPPLSSRDAGLQ TSQLLP\SWGWS\PNIIPELDLGPLSPTGR LSAAFPSCRSPSTGNGKDATSQVDSHPA PSFRSPGLELSRCPGDPVTATSPHEWTQQ GKDWRPCSCPLVMQAPPTSHIFLPPPSRS SLRRPRAPSGCPWGCLG\RPPAGPWATP LAGLPSWS\GVRLPG*GVLPPASRGSG*G PPRHRPDAGSERPAAAAAGFAGP*VCSN SSALPSVYEGLL
6461	14512	C	7198	161	262	MLKGIPCLHPPLASSSQSDNSQKCLQTLF SLPR*
6462	14513	A	7199	132	1007	NPQAPQATKKEGRKNARKGGSVC SGVP WGPPPRKVPTVPWRAESPGPGESHAGFE SLRHGHAGAGPKGMPRRLPTENTVSAE GSTGGESGARVPDTGKGL*PATHPLPWG SLSGF*ETQRL*G/PCLEGG/YPGEAGQSL ETFLAVV*LGAAG*GWVEARDTFKHPTV CRTAPTKESSPETQQSGAGIGEAAVWC QPHIGRRALQEACGEHGDGRGFGGNHA E/PDRGGNEAAPTNNNTPHPDGHTSL*G/ VTGPSP/PGRWGN*GPESSEPGLDPGPPH PPTSWCGLFLRSFRLHS
6463	14514	A	72	218	428	LSSLPTTISR VFYNLS/CSHL*YSLKHHTY LFIYLFYLFYLFIFETESPLSPRLECRSGI SAHCNLR
6464	14515	A	720	3	408	DAWANARSVRLEVAGLRRDL*R/CSE WPLARATPFCFGSAMPYQESNLSLQ ALESRQDDILKRLYELKAAVDGLSKMIQ TPDADLDVTNIIQADEPTLTTLNALDLNS VLGKDYGALKDIVINANPGFPPLF
6465	14516	A	7200	59	326	TGLSPGSEIGALPGNLV*APFFNPKNLP GAVGP\PGVPPFWGG*ARLGGPRSSEFP LVGLGPLAFRLGTLGPVFKKNQESKKK TSV
6466	14517	A	7201	3	263	TLRKKFFQPGKTTRFSPTP\FSSFFPQKK EKL*GGNPKFPPPKKKPPPKP/HPSS PPPKSSSSQSHAPPKKGPPPEPLKKNPP
6467	14518	A	7202	1	348	RYRSGIPGRRTRAGETPSLLKIQPG/GD GARS*SRLRLRLQENRLNPEGRGCSEL RLCHCTPAWARE*DSLKSKKKKEFKIPIY FLTLLWDVFRTQYYSIPMCLLCGEMVT DI
6468	14519	A	7203	3	441	SSGSRSECRFLPLLFNVVLEILAGAIRQ/Q KE/IKGIHIGKVKVSILTEVINKFIKVA*Y KIN/S/NKSVVCLYTNNEQLEKKFKISSSS SSSSSSSSPNH*GKDLYNENLKTLLKEM KENKWINPCSWIRRLNNVNISILSKVTY KF
6469	14520	A	7204	3	310	TINCVDITDIYRLHPSTADCTFCPSNNGI FTNIGHILGKTHINKFISIEFI*CLLSDHRI KLEINNKTWKIPKYL*INTLIKEKCEEQF *NTVN*NPNTI
6470	14521	A	7205	3	88	
6471	14522	A	7206	2	1053	TMPSSVSWGILLAGLCCLVPVSLAEDP QGDAAQKTDTSHHDDHPTFNKITPNLA EFAFSLYRQLAHQSNSTNIFFSPVSIATAF AMLSLGTKADTHDEILEGLNFNLTIEPEA QIHEGFQELLRTLNPQDSQLQLTTGNGLF LSEGLKLVDFLEDVKKLYHSEFTVNF GDTEEAKKQINDYLEKGTQKQIVDLVK EL\DRDTVFALVNYIFFKGKWERPFEVK DTVEEDFHVDQATTVKVPYELKRLGM FNUQL\KKLASSWGAA**KYL\GNATRH LLSCLDGGGNLQHLGKIELHPTIHSFSL GEIEGQ/DRSCPALHFTQIVPLLGTYGLK SVLGFNWGIH

6472	14523	A	7207	2	334	RDPPGPGPAITARERKCAKHPSLHQITV THLKL*VVLAQLTLEEPHCHANDPLIFE DMEAMTDLELHELCCQDRHINNQLDM DLILDSGKFQVVGICLSELKQKQDSSN
6473	14524	A	7208	1	306	LRRS/LCSVAQAGVQWWDLSSLQPLPPG PMPFRLSLPSSWDHRRPRPLPANFLYF* *RRGFTVLARMVSIS*PCDPPASASQSAG ITGVRHRTQPPRYVFM
6474	14525	A	7209	156	331	QPLILRCLPPRSIYRFNSIPIKIQTFF*EK EKSLKFIQNLKGP*ITKTILRKKKVD
6475	14526	A	721	25	494	PLTVSERWPLARATPFCFGSAMPYQV KPYHGGGAPLRVELPTCMYRLPNVHGR SYGPAPGAGHVQESNLSLQALESROD DILKRLYELKAAVDGLSRRIKPPRATLDA ETNIIQADEPTTLTNALDLNSVLGKDYG ALKDIVINANPGSPPLS
6476	14527	A	7210	50	269	FRNIHQRDYNEQ*YG/NKLDNPEDMNK F*ETRYT*/PNLHQEEIGMLNRPVTNKVL *LVIKIPLTKKSPEDGFV
6477	14528	A	7211	584	1001	ILKLWGVGTG*TKVPPQVPPTPHSRA*GP PRRECLRRQ*PRP*SPGFGPLSFPTSVELM GVKTVLSQGASRERGSWG*KGSPLNGR QFWAQGGA/LSWVAWGGGGGWRGSNG KG*QPGEQGSSQLPLIPPPRTWRMGPOG
6478	14529	A	7212	79	315	ERDFLFVPRVGFQGNL*LFPLPGLPL FSGLTLP/RNWGLRGPFTTPG*FLDFLKK RGFNIVAQVGLKFWTSGDPPPL
6479	14530	A	7213	247	827	KYLEIVLLKY*RNESECVILKCSFSLIL LELTMKKKILCLIIY*LLTVQTVTQWIFV CPPKTF*S*AIFNKDV*HILILIVVKKLLV WVQYILSFLILLKLN*DVCFVLLH*VLFL KNSLCVYELILDFLYSMIKDN*KFCTVL GPWKVF*YFLRMSIYFVHNKLALYMK MGLNQIKKVMLLSSKKK
6480	14531	A	7214	1	311	LNREKLKAFPLTSGT*QE/CPLSPLLFNVV REVLATAIRQEKEIRGIQIGKEEVTLSLFV DDMILYLKKPKDCTKKPLEL/NTFSKVA* YIINIQISVAFLNAKSK
6481	14532	A	7215	6	375	ESLRSPSRFS*PSPAYRGHGCSRPAETH NGDPCRAEALSDTPVPQSSGSDHNEKG PSRSPFQLH*PGPWGPAGCRGRPAFTPW RLPAGPLRDSQEDPPSPEEPGSGGAAGQ GGG*GLSCFP
6482	14533	A	7216	80	251	GKFHISKTL**NINILL/VQLSVVAIGINIY RTSNVEVLLQFLEDQNTFPNFEHLAYR
6483	14534	A	7217	161	333	GKFHISKTL**NINILL/VQLSVVAIDINIY RTSNVEVLLQFLEDQNTFPNFEHLAYW
6484	14535	A	7218	3	299	PPFRTHQARRFAPTQDWIGFTQH/RP/G VRKQKYLLV*VDTFTG*VKAFPTRSDKA TAVITSLSDIIPRIGLPTCIQSSSTLALISQ ISHPSCQAATIQ
6485	14536	A	7219	526	1108	TQTKNSKIYFN*LLF*ETGPHSLSPQAGV WVHSHISLQPPGLK/HPPHPSLLSSWD YRHTSLRPANF*KIFVETGSLHVAQDGLE FLGSSPPVSASQSARIAGMSLGARARPC LK
6486	14537	A	722	358	445	NSFGRTIFFFY*FFFFFFFFFTIQTFGGGL SPFFLLFFINPFRFFFFF*TPFLRALAFF KPPFFKIVLAEPYFFFTNPQILMRGGGG FSGRGS
6487	14538	A	7220	181	272	IQSWFNILKSIHVIHHSNRLK/NVNHISS SSSSSSSSPPFLIKKQ*KG
6488	14539	A	7221	2	334	YDEEWRRTVHPDEVGNL*EDR*ALQ NRLRVFLSLMDTGWLDNLLDIDKADVI VKMLDA/SVIKMEGGTDNDLNILDQDVE DEHA*KPGEPSKNEGRAVSGLDGERK

6489	14540	A	7222	1	323	VVSYLLVFESSK*KKIYQDCIGFVQDC LNIIDPIDSLRGKNVIISLDEKVVGKIQ* PFMTKIFSKLGIENFLKWLKYQSSSTVS LLNV*ILKAFLSRTE*GCM
6490	14541	A	7223	2	690	ATYIVDFGFQYNIIEGQMLTAFCGMYP YVAPERSLGACQ*PARDIQLSVILYFR NTVGRRTLPFYS/AEASKLQEKILTGR YHAPPLFALQLDSL/IKLLMLNARKGPSL *LMKNPWVKRIQKMPLIPYEEPL/RGPPQ TIQLMVAMGFQAKNISVAIIEKFNYPM ATYLIL*HTKQERKCSTIRELSLPPGVATS PSPSTELSTFPLSLMRAHREPAFNVQPPE ESQ
6491	14542	A	7224	2	338	SSSYTPEYWQ*RSRSHSPMSNQRRHTGR RANPDNPNTCLRVFGLSLYTDDRDLREVC S*YGPLNGANVVYNQQTGRSQGFAFVH F*GIDDSKEAMVRANRKELDORR\IRVD YS
6492	14543	A	7225	604	841	RPGGQFCLMEASPSGFNPFFLLNLPREW ELRVPPPTRGNFF*FLKKNGF/ENVPGGF DFLN/SNDPPAFASKGVGLTALT
6493	14544	A	7226	3	343	HEPNGFYAIECERCNSPELDEEGYSIIPD EPGSTNGKHFYSSSESEY*E*SHKIVYQIK PSLSTDILNNAAPVDELKASIGNIALSP*P EGAIKRNLSREEVARPRRFTSP
6494	14545	A	7227	3	304	HEEKNEKIRNVGLCEAIVQFTR*YL*VCL *RSVNS*NCCWRIVPNIFF*PL*\TFSPSKP AKSLHTQKNRQFFNEPEENFWMVMVFT YTVYLSEIVWVELW
6495	14546	A	7228	1	167	SARGPDGFTAIFYQTKEELVQILLKQFQ RIKGE\SSLKSL*ETSITLIPKTRKGT
6496	14547	A	7229	2	334	ARDRAALETVIRRAPPELRPGVQGIPR VHELKIEEYVQRLQVGLDPLPLNLA ALYAHVA*EKRVVSILSRILIVILVESLI LLIIVLTGYGQLSILCTCSGVNIF
6497	14548	A	723	452	764	LLFSKCRAVEKNLSKEDPHMETIKVAFV MTSGERDTGLTEPMAG*RGSG*GS**DGP ARGHETSLGHRGVSGDGGSMGPSLTAN ALPSISRPFDSVTDSGSAPL
6498	14549	A	7230	1	792	FFYREVKPSLFVDCKILITEIPKES/NRVL QITRELSKMLAYKVSMLKSILFILTREYK KVKMPFNIVY/NTKYSRINLMKDIYDL YTAIYPSTAALKYRYMCNLQNIARRN*R PPLNKWW/REE*YSWIEGLVVKILVFPKQ IYRFNAPNKKSPPLFNKLIPKFP*KYKG RRISQTNLGRJ/TLQDLKIYYKTTLK/NIV WYWYEVQRLLPPAPQSAPIPTCWQLS PSDLQGLKGAEGLTDWGGKQSGTEITS GHLPLSTFG
6499	14550	A	7231	1	2541	
6500	14551	A	7232	560	901	GNPATPSHCSLPQPPTPQEGAA/YNPDFF FF*KQP*QPKQVSSQPWPLSTSLPPACP SCSRAPAVPAPIQAPSAILPLPGQSVR LCVDPRHRQGPVNLLSDPEQGVEVTG
6501	14552	A	7233	13	2931	EEGRQQSPAADVKTGLRAPLAASAWPH RCCVRLLARITMKPPRPVRTCSKVLVL LSLLAIHQTTTAEKNGIDIYSLTVDSRVSS RFAHTVVTSRVVNRANTVQEATFQMEL PKKAFITNFSMIDGMTYPGIIKEKAEAQ AQYSAAVAKGSAGLVKATGRNMEQF QVSVSAPNAKITFELVYEELLKRRLG YELLKVRPQQLVKHLQMDIHIFEPQGIS FLETESTFMTNQLVDALTTWQNKTKAHI RFK

6502	14553	A	7234	3	338	DAWVSVLCCNLSEAKRRINSLSYNQCEN IRRLPSF/RDVWNGENSRYVEKQASEQQ VELLTNERYLMEESQLLLQYLHVYHMN YFLDLTCRPTFYCYLTEAPIG*PMCKGYL S
6503	14554	A	7235	147	380	ASCRFDFFCLLCYRVLFSLNLTVCFAAYR YFNIYMSFCFTFFLYFWWL/FCYDFLL/D YVF*TLILVLCFFPVSVFMFLI
6504	14555	A	7236	1	257	PTRPDFFAQQQHLTPDKIYHVTVMPCYD KKLEASRPDDFNQEHQTRDVCVLTGGE VFRLLLEEGVSLPDLEPAPLDSLCSGAYA *EPTSHR\GGSGGYLDHVFRHASLQLFD S/DVV*VSSIHLR**DFFAQQQHLTPDKIY HVTVMPCYDKKLEASRPDDFNQEHQTR DVCVLTGGEVFRLLLEEGVSLPDLEPAP LDSLCSGAYA
6505	14556	A	7237	2	502	PVWWNLQRRTSAGPGTAVPGLAVA*FR QTGLTRSPSSGRDGAGVRDLWNPPPPVP IPLPLGFHLRGPDSLAEQPSACLPGS/PP CRNGLGQPQQHGLWPG*IGIQFRLGFH GNQGPPGPSNLPPYPPFLFAAPLHTRHVPC /LHCCPLTWAALPTPLCLWRCSAIQD
6506	14557	A	7238	1	828	
6507	14558	A	7239	2	775	NISREMLQQSKILKVIRKNLVKKCLELFT ELAEDKENYKKFYEQFSKNIKVGVNNH* FSNWPL*FFFFFFNSESLSCKEHTLFQLGIH EDSQNRKKLSELLRYYTSASGDEMVSLLK DYCTRMKENQKHIIYIT\GKRTLCSYHT RRSYNLVGSVGVFSTQVALLQLVLI*AR* LT*TRSFVSLGSA*VSG*QEKSELDETILN C*KV*K*LCNTSGETKDQVANSFAVERL RKHGLEVIYMIPIEDCAQQLEEF*GK
6508	14559	A	724	209	384	KYETIRYRDSVKGRFTIF*HLTKNCLHLR AIGLGADDSHFYSCANDVADSGTTLFFD S
6509	14560	A	7240	1	2303	QLLQRPVAVPLVLCGHLAKMPEETQT QDQPMEEEEVETFAFQAEIAQLMSLIINT FYSNKEIFLRELISNSSDALDKIRYETLTD PSKLDSGKELHINLIPNKQDRTLITVDGTI GMTKADLNNLGTIAKSGTKAFMEALQA GADISMIGQFGVGFYSAYLVAEKVTVIT KHNDDEQYAWESSAGGSFTVRTDTGEP MGRGTVILHLKEDQTEYLEERRIKEIVK KHSQFIGYPITLFEKERDKEVSDDEAEE KEDKEEKEKEEKESEDKPEIEDVGSDEE EEKKDGDKKKKKKIKKIDQEELNKT PIWTRNPDITNEEYGEFYKSLTNDWED HLAVKHFSVEGQLEFRALLFVPRRPF LFENRKKKNIKLYVRRVFIMDNCEELIP EYLNFIGVVDSEDLPLNISREMLQK/S KILKVIRKNLVKKCLELFTELAEDPANY QK\FYE\QFS\KNLKALEYHEDS\QNRKEA FPELLRY\YTSAS\SDMDTLKD\YCTRM KENQKHIIYITGETK\QVAVNSSLCGTV FRKHGLEVIYMIPIDEYCVQQLKEFEG KTLVSVTKEGLAELPED\EEEEKKQEEKK TKFENLCKIMKDIK\EEKVEKVVSRLA VTSP\CCIVTSTY\GWTANMERIHGKLQ ALKETTSTMGFTWQPKKHLEINPDHSIE TLRQKAEADKNDKSVEGILVILLYETAL LSSGFSLEDPQTHANRIYRMIKLGLGIDE DDPTADDTSAAVTEEMPPLGDDDTSR MEEVD
6510	14561	A	7241	158	405	RMNLDSGMDDIISQESSLDMEGNYKK AQKNEREAILLAL*SFDDGSRIS/CE QSGKQIFSPH**GINFQIGLSSTWSP

6511	14562	A	7242	3	442	TLLMFNNNVSLTTLTFMFLFSLPCTED VPTCGDSCDKVLECGIHRCSSQRCHRGVC T*VIYFHAVFQAGPECLHCEEGCSKSRL GCLHPCILRCHPGECPPCVQMLGTAESA VLPQACHCPQFCLQSPFFLTHKEPQSSW SSG
6512	14563	A	7243	2	322	SGWSLTEQDPYNNIVRTAIEAMAAVFGG TQSLHTNSFDEALGLSTVKSSLIPFSLHF LFS*QFSLSYISIFLFIFFYFYLSELLHFFY IFYLISIFLFFFLFIY
6513	14564	A	7244	1	361	RELLAFWQNFKLRPQGPFSPAGPGGEKK R*SLPKTPPKGGPPGP/SPNGRLPSGGQLP PPRGG/SPQSSSLPKGPQGWGPPFP*RSP PCPPHRIGVPQVSSSPTPLVFPRLNPG NLGG
6514	14565	A	7245	115	313	LVRSLTSLPHSPNPITLSLPS*LPPYGPVY LSHYPPSPITSLTHPPSPSPITSLPP/SPI TPTS
6515	14566	A	7246	2	326	NEGECRKDVEMEPVLQAEKTNFQNHKG HEFIPTL\WHFPANCDACAKPLWHVIKPP PALECRCHVKCHRDHLDYTDLLIFPCN IRYDVSSTLRYS*LLHFSDEITH
6516	14567	A	7247	1	364	EHTRAEDHMLEEREER*RAERAQREE*L PEYQERMKTL*EADRNIRPRELEERER/ RTEERILGDSSLSRKDSRWGDRDSEGA WRTGPEAHSEWITGSPQMEWRP*EWLY DDRSYTG
6517	14568	A	7248	86	512	RGRVEAAPGYGSHLCHNPLCTYWQKF GQPPGLQRTAASYSSDTMLGKAETHPT FAFFPAQGPCKESWQSRDTSARSETLGT ACSYNTGNNWAGAAHGDTEDLQWLQ RKRE/RSEKTRTDLKGVRTSNGTARDD NCAYS
6518	14569	A	7249	2	703	PDCPSRPT/YARGTSPGNKTENAHKGPKS VSSAPKMR*SLQDTG/REDTREPVRFTD TGTKEQTVIFAD*KIAGRCKT*GQFPRQR PPHGGGSTPQLFSAAIGTSFPAFPAVKV HGFKTSPTGRGGGHWANTR/SFSWLATK KRESERKTRTDLKGVRTSNGTARDDNC AYSPHRRERGAPPAHGLYRRSVCARKN HIVLSKTGGRSVRRHDHRRSRSWRLRPG VSHHMRRSQ
6519	14570	A	725	68	362	SLPTIRECIYIHVVHAGDHIGNACWELYC L*HGIHPDGHMPRDLTIGGGEDSFNTFFT ETGASEVPRAAFADLEPTVIDEVGTVTY GQYLQL*QLIK
6520	14571	A	7250	148	357	LGIDLTKKVKKLSKKNYKTLMKKIEDDS N*KDNSCL*IR/MTILPKAIYRFNTISVNIP MRFLPDADAW
6521	14572	A	7251	1	389	RGAQAIIVF/NLNDVASLEHPSKWLADA LKENDLPSVLLFLTRAQYALMEKDALQ VAQEMKAEYWAVSSLTGENVREFFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKPTCCP
6522	14573	A	7252	1	144	
6523	14574	A	7253	174	809	DQRGGNWAYECQWEGPCRLTHPLLSTS HGRQWLADALKENDPSSVLLFLVGSKK DLSVSVVPGGLPSLVRECPPLTAFQTP AQYALMEKDALQVAQEMKAEYWAVSS LTG/EVGGFRALL*HSCALLSLLHLQLC PVSPDPALPLSTYLLSVGENVREFFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKPTCC
6524	14575	A	7254	1	524	MERFEVLGIPFSLQLWDTAGQERFKCIAS TYRGAQAIIVFNLNDVASLEHTKQGV AECLKEE*PSRVVLFLLGFKKDLSTPAQ/ YALMEKDAFPGGPRRLKAEYWAVSSLT GENVREFFFRVAALTFEANVLAELEKIG CLNUGLMEVDRDSDSNLYLTASKKKPTCC

						GLDVIGMFVRIN\SDDS\NLYLTASKEEAP HVCp
6525	14576	A	7255	1	258	
6526	14577	A	7256	2	562	RCFARYRPVHADPLYCQGHAAAPVGYST VSRTHAPGG/VQLPPPPPYTA/GRGAQVG RGCSPARSGAWPHRSGAVDHPLTQGDH TAPDHSSGLNDHSHHGAGARHLPFPQG HAAWPP*DLNPCRTQPS*PSHSRPGSPL APVAPPWALGWNQYFYPKSDSLLLLAK LYLIQWVFPCTVDFPNVINFNK
6527	14578	C	7257	30	323	MRLQLPSTSHLPVKRGXKEGEAVVLPEV EPGLTAREQEATPRPRETTQLPTTHQALG WNQYFYPKSDSLLLLAKLYLIQWVFPCT VDFPNVINFNK*
6528	14579	B	7258	249	374	RLRWPLREVGQSVQDQCTTKPREPVSGI RYCDFLPGVYDCT*
6529	14580	B	7259	77	867	XAGALQDITLSQQTPTSTWKDTQLLTAIPT SPEPTGLEATAASTSTLPAGEGPKGEAV VLPEVEPGLTAREQEATPRPRETTQLPTT HQASTTTATTAQEPATSHPHRDMQPGH HETSTPAGPSQADLHTPHTEDGGPSATE RAAEDGASSQLPAAEGSGEQDFTFETSG ENTAVVAVEPDRRNQSPVDQGATGASQ GLLDRKEVLGGVIAGGLVGLIFAVCLVG FMLYRMKKKDEGSYSLEEPKQANGGAY QKPTKQEEFYA*
6530	14581	A	726	1	1254	
6531	14582	A	7260	93	1049	TSGSHSGITQFLPCFSGAQPTGQSP*KR SPGPQHRAARCTHFPEGSPFFGSSCSRPR NRAWVSAWWAGS*RPAQWSQELTQTP KQAGGQWRGPAPSRTMPRRLEPPQHP KEQERHGVALEQSR/PRTLPPALGHTCV* DQPSAFPVPAQPWGNPSMGS/HERSWV CHVL*LSSHPLIQRRGSPCPPPVGLGISP SPCPGGQPRQPD\SSLLGA*ASGFSGTPK FKGPGTHHGPCQLPSPAGLGSGLEDL EAVGRTQPSNA/PLAPGQ*ATGGSALQPP VHTASNAPGPVSPDAPPPLPDQAQRLQD QQAKAKPCPR
6532	14583	A	7261	2	643	PRVRLNGIVDR*VLGCLPCYDLGIFTDRD LGVHADAHDLVENL\KDIA**IPFLAEGI RIHGDKVTVALRPFHERMEACFKQLKE MVENEYGVIMPSSLDD*RGIRPRSMVR AFTMPSSSRPLSVASVSSLSSDSTPSRPGS DGFALPPLPKKMLSRSHDKLYKDDLDT DKKDYMTYNWTCRQFQISRDKMKRTD VSLYIMLVSPNPNSY
6533	14584	A	7262	59	339	
6534	14585	A	7263	2	519	ILFLFLFYFISFLRWSFTFVAQAGVQW*D LDSLQSPPPRFK*LACLSSLSSWDYRHMP PRPANFLYF**RWGFTMLARLVLDSPQ/ CDPPASASQSVGITGMSHHAGPTMKLLN PQSEVIFSPRNSHSTLLTPLSRHLHPHISIS TWCIIHYAPLHTVSISAEAPWLFACQPS
6535	14586	A	7265	3	317	EESFTAHLRHRGVQPFPCGQCDKAYG TQDLKEHQVVHSGARPFACDQCGKAF ARRPSRLHRMTHQ\GQLPMPLAHALCG AAPGSQGFLWNHMLHT*KKPFL
6536	14587	A	7266	285	672	PLCTREKSEYMCTSYSLARSRVGQTLCK GVQWRHLSSL*PPPPGFKQF/SCLSLPSR WDYRCPPPHLANFFYF*QRQGFTILARL ALNS*PRDPPASASQIAGITGVSHRDLII NFLDFEGYT*SATDS

6537	14588	A	7267	3	231	QIEQLHRRF*AA*/RGDQPTIRKENFN PDLELNPIRSKIVRAFFDNRNLRKGPRGL ADEINYEDFLTIMFYFLSI
6538	14589	A	7268	88	360	KINMGILLKLVRFSIHPVKTPAGLF/TK NEQ**TEFDKRLKSIWKCKE/PYSTRTMF KKTEAKGLPS/P/DFKTYEATEFKTS*D QQKDRYKE
6539	14590	A	7269	2	355	RRLFFFFFFLRRSL/DSVAQVGVQWHNIG SLQAPPPGFTPFSCSLSPSS*DHRPPPCP ANFLYF**RQGLTMLAKLVSTS*PCDLPA PAHQSAGITDMSHRARLIVSLFKRQKTY GNN
6540	14591	A	727	65	1552	PLKAKMGKEKTHI\NIVVIGHVDNGQVSP LLGHLIYKC\GGIDKRTIEKFEK\EAEM GKGSFKYA*VLDK\AER\ERGIT\DISL WKFET\SKYYVTYFPDAP\GHQRLLSKN MIYRGHLKA*PGLGGPLFGVLP*LFAA GVWWNLKAGISKNG\Q\TREHALLGLHT WVWKQTKLFGVNKNWIST*GHPTAQKK ILKEIVKGKSALT\LRKIGYNPDTSSILCPIS GW\NGDNNAWSPNA\NMPWFQGDGKVT RKDGNASGTTLEALDCILPPTRP\TDKPL GLPLQDVYKIGGIGTVPVGRVETGVLPK GMVVTFGPVNVTTVEKSVEMHHEALGE ALPGDNVGFNVKNVSVKDVRRGNVAG DSKNDPPMEAAGFPAQVILNHPGQISAG YAPVLDCHTAHIACKFAELKEKIDRRSG KKLEDGPKFLKSGDAI\DMVPGKPMC VESFSDYPPLGCF\VRDMRQTVAVGVK AVDKKAAGAGKVT\KSAQKAQKAK
6541	14592	A	7270	1	336	RGDTGRTLAQRGARSSG/LPTV/LNPGRQ LTSAG*PH*YGKARAAMPTPSLVRPVLK VGHSPEVSGSAAEIAPWTISSPLYNPSS LPGPASSMPPIPNSPLASPVSYTVLV
6542	14593	A	7271	1	371	RSRPELNDYKDKKAATKNVQKK*MQRQ KG/DIAIDATETQRIIRDCYEHYNKMSSSS SSSSSSSSSS/SSSSSSSSSS/SSSSSSS SSSQSLPSKKNSSGSEGFTAIFYQRYKTPL ILKLFKK
6543	14594	A	7272	2	406	ARAARVFLHRTSLNLSNGGTQC*KTMV VHDDEYSEPCMTSPKEGTLIVRQTQSAS STLQKHKSSSFTPFIDPRLLQISPSSGTTV TSVVGISCNWMPR*SINKHYPTQKGSLSF* ISTHTYTPQSAFCVIFLHYC
6544	14595	A	7273	1	165	GSLPLLFIILEVLAKAIRQEKSQNEKE KV*LSSLTDHMI/YM*NPTVKKLT*KL T
6545	14596	A	7274	110	409	
6546	14597	A	7275	53	930	ARSYRQLTMEANGLGLQRIHTDTYPHPH LIARPQGFPKNDTFLRAAWGEETDYT PVWCMRQAGRYLPEVRETRSAQDFST CRSPEACCELTLQALRRFPLDAAIFSDIL VVPQMFSPPP\ALGMEVTMVPKGPSFP EPLREEQDLERLR\DEPV\ASELG\YVFQ ATTLTRQRLAGRVP\LIG\FAGAPWTLMT YMVEGGGSST\MAQAKRWLYQRPQASH QLLRILTALVPYLVGQVVAGAALQLF ESHAGHLGPQFFNK\FALPYIRDVAKQVK ARL\REAGLAPVPM
6547	14598	A	7276	86	552	KQPQPTAPLWQPLKLSKLGAPGHGPC CLHLLSALGSLPGLVPWLPSPRVGC/SS*G LLLTKSPQPSADPGQRRVALHHVL*VEP FASQEAQPPSLP/WW/PLRGDTESQGPS PLSARCTHPGCRSVRGRWGRARGWPAR CQGAGGPGGWRTTCPCR

6548	14599	A	7277	176	779	NSVSKLGLAPGHGALLPPPAERSREASQI PRGRAPGVHYLCLKQPRPRGLLGPQGNE RPLPSKPHLCAGLCLGGPGPTSPLPFETIR NWARRPPEA*PQGACI/LLSLGDPRGVG *PWV*TPGGLVFWMSLWHFGPQLKPPPL PRSLRPRSLDLLGRKRHQGGQDEKPGGA APQMRAL*PVLPLPHPGTAPQLVTATR KP
6549	14600	A	7278	32	492	FALVGQAGTQ*CDLGSVQPPPLGFK*FSC LSLLSS*DYRHVPPCWLIFFVFLVEQGFVI LAKLVSNP*PQ/CDPPILASQ/SAGITGVS HCAW/L*LSFSFFC*DRVSVTQAGMQWH DLSSLQPLPLGFN*FSCSLPSSWDYRCV PPHPANFFIFSR
6550	14601	A	7279	19	253	LENSFLKTLPLAIAACRNIKYMNLTKCESC KLREIKDLNKWGSTPCSTIGKLRIKMS FLPKLIYKSQKTFFLQTLIK
6551	14602	A	728	344	803	KRDPSLSAYPFFKCNLLSTLHFMITAYAS LYFIYTEPVFVQHDWLHASKAL*IPFHISPS TTIPLIMVSQPYTEHYIVTKLGEFQVSK GNYIHKRFCFIAQFTI*LVITQPTMLR*ISD YLDKYIGFCPPQPMKQERHTYSPPYQGC VYSVVQS
6552	14603	A	7280	3	1023	FLNWKSKILYSTDDMIYIENAKESRKKL LE*VN*SKLLDTRSMYKSNAFLYTSNNL GKPAF*KPYPLAIAACRNIKYMNLTKCES CKLREIKDLNKWGSTPCSTIGKLRIKMS SFLPKLIYKSQKTFFLADIDKSCFF*DSFT PGLPRLEWPWPRSQAHA*KPSNLPSSNSP GLSLPSSWDSTSACHRRLANFFVFLVEM W*CMPTVPTTWEAKERHLSPDVRGYIS CDCATTLQPGQONEISASNKTTVINIVSY WCKVIHTRKWCPEQTSMCLRVTNL* RLGHWESRVSTNRTEPTNHTDKKYNLD PYHIWYTKMNSKWITDLNVKGKTIKVP
6553	14604	A	7281	1	407	DVCKPDLTVGLRYAPHQYKSVVATNLP EAKYWFLNWIADLSKAAPRNNDVALGTS AQAYYGYRKQEQLL*EEDALTGTNESL ERQMREMEENFAVEAANYQDTIGRLQD EIHNMKEEMARHLREYQDLLNVKMGP
6554	14605	A	7282	1	3003	MNIDAKIHKNILANRIQQHIKKLIHHDQV GFIPGMQGWFNSTKSINVIQHINRTNDK NHMIISINAEKTFDKTQQPFMLKTLNKL IDGTYLKIIRAIYDKPTANIIPNGQKLEAF PLKTGTGRQGCPLSSLLFNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFADDMIVYLE KPIISAQNLLKLTSNFSKVSGYKINVQKS QAFLYTNKRQTESQIMSELPFTIASKRIK YLGQILTRDVKDLFKKIYQSLN
6555	14606	A	7283	2	178	PRVRWN/RKVQKQIISHYGG*IVDKGSR TIQ*RKNSVFN**C*DK*IFTCKRMNLYL YFVSSSSSSSSSSSSSSSSSSSL*EENTGI NLHDLGFGNGFLDPAKQATTA*LYL YF

6556	14607	A	7284	699	2526	MQYNIFQVLYILDELHGILGNLTINKFIH RSIVANNLDDLDEKTHQLTKLAQKEIKN PNRPVTSKEIEPVIKNLPATKESPLNEFT GQ/YYGQTY*RKELTLILLELSQKMEEKG /V/IPVTFYKADITLTPKPKDKDLTGNYRPI SLMNIDAKKLAKILAGQIQQLIKMITQHD\A QVRFIKEMQGWFWHIQMSIDVIIYHINRM KGKKVHMITSIDKKKHLTKIQHPFMVKTL CKLGRKGNFLNLIKTSIKTHS*QHNSKTL KIFPLIS*KFLISPLLFNILEGLARAIRQEK EIK*IQIGRSKTTFAENMVLYIKNPKEST K*FRLI*KFSNVAGCKINTQKSKKNLRG N*/RQF/PFTIT*KRIKYLEINLTKKVQDL TEKYKTLLEIKEDLNKWK/NILCWQVG RLNIVKMALLPKLVYRFNTIPIKIPVT/LF TETEKLTLEFIWGLQV/N*RYSSLFKTILN KNKVEGLTFSNFKIYCKATSIKTVLCWY KNI*SNRVEWKVQKQITPHLWSIDFWP RGSRTIQ*RKNSVFN**C*DK*IFTCKRM NLVLYFIPYIKANSR*IKDPKCKSVNPIKL *EENTGINLHDLGFGNGFLDMAPKAQAT TAKKKKK
6557	14608	A	7285	2	577	KKIKNIKGSIQQEGLTVVNMYAPNDKPS TYMKQKLT*LKGE\DNSTLIVGVFNITISV VDRT/SQYLSKEI*DFHNTINQLDLTTIYR TLYPTMKYTFSSIHRSKIGHKLSLN*F *KTA\NIFPDHNGMNLVIIPKKKTGKFKN HRN*HTLNH*IKKETTRHWLKITPRLWP WQVRVFGAQSLOQPOLTAR
6558	14609	A	7286	17	377	QRKACAPRAWSGDPSACRPSVRS*GSTT *G/KPVNFDDYGDYIPAVNLKTLFLRELA ESLLTFQAYDQILGITCEYLPWRRSGGLS PHMLSLIYWPMVRLWGGRGDVYPSCYC CHMALYGM
6559	14610	A	7287	1	893	SISSQQT*SSWAPCYRSLPASTWASSLCS SSSLISFSFSSVYSSPPGSSSTPLASILSAFF *PLDFSSLASVSSLLPSLNLTFVSWLPPAS PLSSLAFPASTLVSGLPASASSLMSSLP ACLSPTSQHACSS/STLSQSLPSTSCCLS LQTP*TLPDWGFERSQKGT*V*ALRKTS SPFSSSTSGLPAESREQQLGAKTNCASS RDRSSRCGSTENSST*GTPRSSSR*PIPGS SSPGEKAAPAASAWAASPSSAPTHSGYE LLESSRKEKESCTSWDESSRAGAKSSGP ES
6560	14611	A	7288	827	1393	ARCRQAREDGRVLVQRLCRRGHFVPLQH RRGAQERAPGIAHSSCAAEPRLSLRTDI SSALVWPRASCARSCPEMGPPNLK GA*TLEECPP\LSGSPRKNLD*PPGLEEPS RLEGGTPSSALLKG/PAPTYLPPYAL PKPTSA/VQHSPSTYPPHVLPPIPTSSWR VVAVGALCSRQDNLHDQRL
6561	14612	A	7289	104	464	
6562	14613	A	729	209	372	KRKKILRINKTKS*FFEKINKIYKMLTHL RRDKRQKKSEIKKGDITTDTEMKK
6563	14614	A	7290	2	394	PRVRNHPIQKWAKKGL\DSHLSKEGPQ/A AISHMKRCPASPATRE/VQIRATGETHLR GCGNIGTLTRC*WGCK/LLQPLWKPVW WFLRSLSIGLRCD/PVATPLLSV/WPQAC KPGTQRDLHTTVFTAALFTVAEQ
6564	14615	A	7291	2	344	DTRTHVAEEDKLAIIVEPEKRGKYVWF DPLDGSSNIDCLVSVATIFGFYITNSSVD*P SFNHA\NST*RNLYLVSLPFHLAFLSTFHL SFLFFLSFLSLFSYLFLLFSFFSS
6565	14616	A	7292	1	348	RYRSGIPGRRTRAGETPSLLKIQQPG/GD GARS*SRLRLRLRQENRLNPEGRGCSEL RLCHCTPAWARE*DSLKKKKKKEFKIPIY FLTLLWDVVRTQYTYSIPMCLLCGEMVT

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6566	14617	A	7293	10	436 EYYRFLEAKENRTATY*NL/MDHAAKAE LRGKFISIIYAYIKKLEKFOIKNLTMQSKK LEKF*IKKSSNVFQRRARKEQTKPQISQRK *ISEKE*TKLRLNQCHKSLKQPLLS*TK KDQNK*MRKEKGDIKLSGRVGRPEYLQ T
6567	14618	A	7294	2	403 CPTSTSTSWTMWGPACREHL*PLPTFP GQQPNTLP/RPTLRP/SP*TPTSACS/RP*/P AVPSRPSHPSHLPPSCPPQFTFNVPHL**G GPHPTHNLPPNPCALLQLPGFSTLPRLS P*TPPTTPICHCVSRFLAP
6568	14619	A	7295	27	88 CREEDDDLVESEDS*QWGESLKRVSFTL LDDEATEDAGDLNVKKNSDEVKSFEKR QEKESA*VGRKMMTWLKVKTNNGEK A
6569	14620	A	7296	109	409 KFKNMWKLNDTL/LNNHWVKEEIKKEIR KYLKRNNENKNTTYQNL*DSAKPVLREFV VINAYIKIEEGSYISNLTLYLKDLEKEIKA KVNRRKDIRITEIN
6570	14621	A	7297	13	811 VCRRWSGGLARRFGSGCCSSCPQRR ARRSQVQNGKYL/FDQINRSLENYEPCSS QNCSCYHGVIEEDLTPFRGGISRKMMAE VVRRLGTHYQITKNRLYRENDCMFPSR CSGVEHFILEVIGRLPDMEMVINVRDYP QVP*MDGACHPS/PSPSVRHQS/DHDIMY PAWTFWE/WGTCCLANLSYRSWTEGPL QRRSGKVS/TQWPWKKKNSTAYFRGSR TSPERDPLILLSRKNPKLVDAYTKNQ WKSMDTLGKPAADVHLVDH
6571	14622	A	7298	22	426 IFSHYFFQKFLRLPFIMFIMHLLGCKVDL FIFQCFHLLVFYFGLFYLLKLCYTFKFT NCFLYSFSFTVHLI*YIFPSDIMFLYVEV* FKSFF*RYLPLCHVHAFISFLNILVLSFSS* **LTIFYCPYLLFYH
6572	14623	A	7299	131	353 IFLPEKKLYKLEKWDRAFDNT*NF*TK/I HTGEKS*KCKKWDRAFKGWPHFIIGKIV HTEKNFYKGEQCGKTFN
6573	14624	A	73	702	1281 AVEMYLVVCGTVAISRVRMSAVCVLRT WSRNAGQLNCFVTFQPCSNVHVL/KGP NYVCFFGYPSFKYSHPAHNFVKTNVAVC GQ/LVQFRFPDTEEGIRKVTV/KCYVKEG DTVSQFDNIGKVQSDKASVTIASPYDGV I/RKL*HSLDDIAYVGKPLVNIEALKGT VNLFYQIDYCPFFVIGSQLKVTFKKKK
6574	14625	A	730	24	452 APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDSFGNLSASAIMGN PKVKAHGKVLTSLGDAIKHLDDLKGTG AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
6575	14626	A	7300	131	418 IILTEKKLYKLEK/CGQGF*QHLKLLNIKN HTGEKS*KCKKWDRAFKGWPHFIIGKIV HTEKNFYKGEQGGKTFNEGSHLIAQESI YT*KKLSKYKD
6576	14627	A	7301	305	326 KTFRSQKKK*IHW/DYIKILNFCARKNTIS KVQRQPT*EKIFANHISA*G
6577	14628	A	7302	3	416 FLR*IGSHSVTQAGVLWRDFGSLQPLPG LKLFSCLSFSS*DYRRVPPCLAKFCIFS/ VRRGFAMLARLVLS*L*VVCPP/CHVD LYN*SASQSAGIKGVSHHTWPHKYHLK NLNVFSYQSKSTVNNQLSSQILLN
6578	14629	A	7303	3	474

6579	14630	A	7304	2	1050	REDTKAAVLLHLLHNVRPQDQTVVVFV ATKHHAEYLTELLTQRVSCAHIYSALD PTARKINLAKFTLGKCSLIVTDLAARGL DIPLLDNVINYSFPAKGKFLHRVGRVA RAGRSGTAYSLVAPDEIPYMQDLHLFLG PLPHPRPTPQGALRVWAGVDGHAGVGV PQSVVDEEDSGLOSTLEASLELRGLARV ADNAQQQYVRSRPAPSPESIKRAKEMDL VGLGLHPLFSSRFEEELQLLDLVNSIKN YRSRATIFEINASSRDLCSQVMRAKROK DRKAIARFQQGQQGRQEQQEGPVGPAPS RPALQEQPEKEEEEEAGEKCEDIFSEVG GRKRQRSGPNR
6580	14631	A	7305	3	872	PKSWNGPPHPGHRHSRSHSNFSGCSVD EERSRTSKDSSSPVNDHRGRQ*MR*KNP FAASSRSTSSSSSSSPPLWSTAGRTP TRSGPSPALDKVQIYMEHLLATAST/EPA GSAHVPGHLFRAE*VLPAL*GRALLGTP VTNNLLGEIAKPSLSQSKRLKAAS/AAKY PHDVVNHLSCDEARNHYGRRGQPHPPH PRTK*KNGSPTPRSCRARCCST*VSPRRT RRAPGDPLVLRP*GPSGPLNTSVDSQ KPASNPGDVQNHPPGGLLVGNCNSEPGA PSAESFAV
6581	14632	A	7306	99	433	KLKVKGGKRYRMLTLIKRK*H*IKIQNSC VFLYTSN*ELENK/IFGRYVSFMA*KIKS/ LGILMKDV*NLHSEYERLLTKIKDDSN KWTDMQFTRIR*YHKMLILK*PIIY
6582	14633	A	7307	18	146	LHDSNTRSPQFQKSLGFSTGRHRCVP*EG L/RSVTQAGVQWPIHSSLQPRPPGLQSDP PASACQAARTLCRWY
6583	14634	A	7308	1	240	LVCLSKSECLQPLFYHHLTLKNCQFHL RILLHPQC*KQALRHGKACPLCHCCSHA ALYMICLAKED*KTFDPQELMYSL
6584	14635	A	7309	2	1790	ANQLQEGEVRFVVDRCRAEQYGAGHL STAFHLDSDLMLQNPSEF/DTAIL*SLLEA QKQSIESGSIAGGEHLCFMGSGREEEDM YMNMLVAHFLQKNTEYVSIASGGFMAL QHHLADINVDGPENGYGHWIASTSRSR SINSVDGESP/KWLCKLRWILKHQV
6585	14636	A	731	99	641	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVPWTQRFDSFGNLS SASAIMG/NTPKVKAHGKKVLTSLGDAI KHLDDLKGTFAQLSELHCDKLHVPDENF KLLGNVLVTVAIHFGK/EFTPEVQASW QKMAEDVTGVASALASTYPLSSLAHDS ELSRDRLLFCKQIKI
6586	14637	A	7310	1	1424	ARILLDNHYAMEKLKRVLEYLAVRQ LKNNLKGPILCFVGPPGVGKTSVGRSVA KTLGREFHRIALGGVCDQSDIRGHRTY VG/SMPG/RHINGLKTVGVNNPVFLLDEV DKLGKSLQGDPAALL*/EVLDPQNH FTDHYLNVAFDLSQVLFATANTLATIP AALLDRMEIIQVPGYTQEEKIEIAHRHLIP KQLEQHGLTPQQIQIPQVTF*ITRYTRE AGVRS�DRNLGPLCRAVAVKVA*GQRT EPIWTVLM*LREKVAENTS*KMKNLNL /RDTTDLALPEMPILIDFHALKDILGPPM YEMEVSQRLSQPGVAIGLAWTPLGGEIIF VEASRLDGEQQLTGTGPSSGTMKESAH LAISWLRKQRKESTKLTNAFGSFDLLDN TDIHLHFPAGAVTKDGPSCWEVTISNLSR PQLFSGRLVRSDVAMTGEITLRLGLALPV GGIKDKVLAHRAGLKQVIIPR
6587	14638	B	7311	169	379	VSQRLSQPGVAIGLAWTPLGGEIMFVEA SRMDGEGQLTLTGQLGDMKESAHLAI QLGSAATQRSTQLTNX*

6588	14639	A	7312	3	411	HHFLTCRIKNKINYTIATKTIKYLRLNLRN F*SLTKPKLLKDIKVDLNKWKNNISYSWL R*FKLTNISVLPILIYNKIPPI*KINTFFIKLD KLMPKFI*KNKHVKIGRK/ITKKKSYKGI LTLSDIKTYKVSIIKTIV
6589	14640	A	7313	2	423	SFPLPFPLPPCSPQGPQLLRKAITRPWPG TCPYPASTQVGEFTLRTRPQLSVGV*EEG CPYPSPADSPMSEDPGAAPPHHPRSPL*R NR/C/SSKGKTAVFAWPASHLASPLQPTG LPGKRNNMLSVNNTPQPDWVAPE
6590	14641	A	7314	2	416	ILSTLFQICHCLWSSQLLLTSHCQYHYCC SSKNKNNLAWLLLKLFLYNLEA*FIHLA VIFLYLSCLGFTALYEFVVCFLLLVLRSY SVLLFLSF/LFWNFS\THILELLCPICLLNF VLLFMYFSFSVLQFGYFLFLCLQ
6591	14642	A	7315	2	411	RQGLTLSHGPEVQWHDLS\QLPPLPGLK KIFPPSASRVAGNTDVHHHAWLVFFPFF VRRGFAIVAQAVLQNPGLQAICPPMASP KCWDYRRGPPHPAQE*EHFLRSLPSTGE SYFGEL*HISTRKIKILVHFEETN
6592	14643	A	7316	2	333	TEPALSPRLECSGTISAHCKLR/LPGFMLF SCLSLP\SSWDYRRPPHPAGFFVFLSRRT GFHC/RLARDGLDLLTS*SARLGFPKCW\ DYRRDDPMPGPVVSFNRMENLMETVD
6593	14644	A	7317	3	232	AASTPRPLRFLPSPTRGLVPN*RPRRRT SSAANTPAPEPAPTSARPTRSNTHRLSP WSSRPVTEEMQSAAKHNG
6594	14645	A	7318	1	385	IPWSRVG*NHPVKNAHLPKAVSKFKTISI KKPPLFFPRMEKTILKFLWDSSSSSSSLPV *SSSSSSSSSSSS\SSSSSSSSSSSSSSSS SSSSSSSSSSSSSPHKIKPNTYRQLIFD KANKN
6595	14646	A	7319	2	409	DRKEERLRSRSGAAATMSSGGKGVAE WDPLPCLDPELWDQFDNLENHLSLEKFII SAKERTIEISYTKQLRNLLKTCQPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V IFFEVLNFQITVELQGHVQNQKQE
6596	14647	A	732	154	411	AGQPGPEGIQLG*PQIRDKGDQMGPHP W*VCGTLTPNTSF*VFCCVAGRDGAPGV KAHFPAAQKPWDGGFGP*SAVGPPPI PR
6597	14648	A	7320	58	501	DPRVRPGTRGPRSGTAGGETTWEGPFGV IVRVLMFLSYELRAAELGEVGAGGPRGA RRPSQTETAA*PASRFVRGLGPQTLRPTS PGPRRSRPLLGDEPPRRRVGGASFPPTRN GSGAWALWRRPCWECSSRSFLRTTKLF LFFGFG

6598	14649	A	7321	381	2378	AASMEHIQGAWKTISNGFGFKDAVFDGS SCISPTIVQQFGYQRRASDDGKLTDPF*T SNTIRVFLPNKQRTVVNVNRNGMSLHDCL MKALKVRGLQPECCAVFRLHEHKGKK ARLDWNTDAASLIGEELQVDFLDHVPLT THNFARKTFLKLAFCDICQKFLNNGFRC QTCGYKFHEHCSTKVPTMCVDWSNIRQ LLFPNSTIGDSGVPALPSLTMRRMRESV SRMPVSSQHRYPHAFTHNTSSPSSEGS LSQRQRSTSTPNVHMVSTTLPVDSRMIE DAIRSHSESASPSALSSSPNNLSPTGWSQ PKTPVPAQRERAPVSGTQEKNNRPRGQ RDSSYYWIEEASEVMLASTRIGSGSFGT VYKKGWHVNVAVKILKVVDPTPEQFQ AFRNEVAVLKTRHVNILLFMGYMTKD NLAIVTQWCEGSSLYKHLHVQETKFQM FQLADIAQTAQGMDYLHAKNIIHRDMK SNNIFLHEGLTS*KFGDFGFA TVK\SRWS GSQQVEQPTGSVLWMAPEVIRMQDNN PFSFQSDV\YSYGHRCMELDGRGELPYS SH\NNRGFRSIFHGWGRGY\ASPDLSKL YK\NCPK\AMKRLVADCVKVK\VERPLF PQILA\SIELLQHSLPKINRSASEPSLHRA AHTEDIN\ACTLT\SSPRLAGLPS
6599	14650	A	7322	3	419	EPQWIQALMPEKEPARQSRGGALRTDSS EPSRNEVKKTISFIILAKRTYLEIATQDA *NLCTEKYKIFLKGIKEYRTKWKDILQS WITRHNVMKAKLP/KFIYSFTICIKMPLS FYKLILJMRKYKGCRIANTI*RER
6600	14651	A	7323	3	222	DAWVTSTNADKEFEKIQHPLMIKLSK* VYNMSYIYPLFKIHKGIYDKSLVNILNVE KLKAFFLRTGTREER
6601	14652	A	7324	2	395	GRQPRWRLWGQLLSSGRRPLEPGWHRP SRGERGHHASFPEPGPCPGPQRPQPG*V PVPEP\PKGGPEPRSSGRKASGPSAQPPP AGDGARERRQSQQLPEEDCMQLNPSFK GIAFNLLAIDICMSKRL
6602	14653	A	7325	63	451	KNQEQESEETLPNLFYKASITLIPKLDTQ K*KKRKEKKRKKKK\EN*KPITHRNIYAK ILNKILAHQIQYIGKIIHHDQVGCIP/GAF DKIQYRCMIR/ILQKMGIEGTHLNIKAIY IRPTDSIENREKP
6603	14654	A	7326	2	137	SKAKINGWDYI*LKCWYTAKKAISGVKR QPTW/EKIFAN*SSDRR
6604	14655	A	7327	755	1287	GGWDFAPAEGRERLAPCQIWDPSCLPTH W*PLSGLLSRPPPGTQSPQLSPYSCAKSW CPCPSLSPGSPMN*PSVPRTTGPSHPEPSA HGSHTSPIVATTERAPERISGGDSLGLSPS GLEGVNREPLFTPPSSSGSSVSLMSSTP PAGHSAA*SPQPGRCSGPAQGGQATSRV RGP

6605	14656	A	7328	1	2239	MEERKGGHKEIHLRRLKVRILSVRMSAIK ESPRLIGNQEPLKQLKQESKMNRVFN TDYSGCIRLIQSRLSHFPESGQQNPKPY MRKFKTPLMIAEEKYRQQKEIEKQKQE SSYYNIVKTQSQNHQHITEVEKEMPLQKT NEEVSLSGIDSECTVVQSPSGSQSNARIL GVCSDNQLSTTSPETVAAKRLHHVLAAS EDKDKMKKEVLQSSRDIMQSKSACEIKQ SHQECSTQQTQQKKYLEQLHLPQSKPISP NFKQSEIDVQITFKKQYLKTKKTEASTE CSHKQSLAERHYQLPKKEKRVTVQLPTE SIQKNQEDKLKMVPRKQREFSGSDRGKL PGSEKNQGPSMIGRKEERLITERKHEHL KNKSAPKVVKQKVIDAHLDSQTQNFQQ TQINQTAESKAHKKLPQPYNSLQEEKC LEVKGIOEKQVFSNTKDSKQEITQNKSF SSVKESQRDDGKGALNIVEFLRKREELQ QILSRVKQFEAPNKSGLKTFQTLNTIP GWLISEDKREYA VHIAMENNLEKVKEEI THIKTQAEMLVSYENIIQTAMMSSKTG KPANGA/ALVSTKTSKPVSNVHVSNEN SEQKEN*IAKEKTVQHQAHADEATVRS HVKTHQEIKLDDSNIPPL*KHSPSPFTFI TTESTARRTENPTKNELSQSPKDSYVEP PPRRPMSQKSEIHRANTSPSPRSRSEQ VRLKDDTTAKLSKGAIPCAATVPVIVEKR SEIIMSPATL
6606	14657	C	7329	110	298	MPWISEGRATRPCLRVPSARRGDEGLHQ RATANSVYKSRNTWLCWICKPPQSSSPK ISEKRF*
6607	14658	A	733	233	353	STAPGSGRQRTVSEEP*PHSTEDGQRGQ WGGTSLQHPAQD
6608	14659	A	7330	127	742	LVRVFPWREDKVWWHCQE/CRPKR*KS KPGLSGPV/APGHSWDSTETTEATGLLI PGPTRRPPTLYHTPCCLSVPRWCRPSSPL LAEGTRRQGLVALPSLIHQIPMGLEVW GLASPPRPGRKWHR*KDKMATQALSVC RA*TCILPPSTKTSRPRPHSTPRGPAPTTV QRNSRRVNKGSPESPLPRGPLVSEPHVA GTRTARDG
6609	14660	A	7331	2	433	FEDIK*VIGKVKKMMSKQGRGNINKGKIK RNQKEIVELKSTVTIKIKNLGGFKNRL*Q TDK*ISYF/EDTTVEISQSGKQSSSRLEGR EQSLKNLWNTIKLTRVYTVGVSEKEKKE QIV*KISAGNFSNLIKMNINIQEAQRT
6610	14661	A	7332	1	281	PR/PDRDSEAPGADGAGPRGALPVPGGH GQDPAEDGPGVHAGGARDGGPDARGA YPPMPSTRGCRKGSLANLP/PVGFQYVH PFF*FPGVTAKIQRMDQVFTLAVRETE ALIPPEVPTRQCPAHEAVGKVHWLICH WFSICPSLFLISRAQYFYF
6611	14662	A	7333	33	427	GSPAPGLPKGWGFRGGPPGPKFVFFKL PKGGFPGAEIFLGEFFQRGKKGLGPIPPP VFLKTEEGGTLNSFFKGRVFLVFKPKA GSSSSSSSPNYKPIYLNNTDTKFFNNMLA NRI*QCIKEVMQYDRTRG
6612	14663	A	7334	491	731	DRGLCLPTLEVQWAPILGSLQPPPGFKQ FSCLSLPNSWDYRCMPTCPANFFVFFCIF **\SRFHQVQGAGVQLLTSSDL
6613	14664	A	7335	2	575	AGQVQQLGFPGWAGGEGRGRPPLL*LSL PGRQLPREEGLTSGHPCWP/DSFPGLP GVEKPQGNL/AGGALLPKLQRQSGPGNH KTLPISRGPADPGAVPVCHSTVGRG*HS LALHTVPPEKFNIFYFTCPENSSFNPLP FRSSLEGIQAGVSSAWGHSAGPGTLGLS GDGRQRQARRFSLHSLPCSP

6614	14665	A	7336	19	422	GEKTDKIQHPLMIKTLTNLGIEKAYISIIK VIHNRPMACHIINGAKVKAFPVRSERQRC SPSPLLFNIGLKVPVRAIEKEKEMKGI*IG KKEIKLCLSGND\MTLYLKHPKNSTKTIR TDTFSKVAGYKNTDAWV
6615	14666	A	7337	33	193	GNLGETLMDIGLGKEFMTKTSKAQATKP KI/DWDLN*KSFC\TDNIMHMLIYL
6616	14667	A	7338	87	713	DIYYNCFGFASRKTDCLSTRIPC\FERTSS NS*TQNL\TALF*IKYDCATVQACRSRNK WEVRDALNKFSGTNSIFYIIKRFYIYIYIF FFFFFFETESHVAQAGMQWRNLGSLPA PPPGFTPF\FCP\SLKWLGPTRRPP\RQTL ANFFVLLVETGF\TMLARMVLIS*PRDPP /ASASQSAEITGVSHCTR\KKIRFAKGHV EFFFESHVE
6617	14668	A	7339	2	105	ENGWCWIATYG\KRKLD\SYLSLHARVNS R\WDL\DLGTETMEILEENLGEVLLDIGLG /KEFMTKTPKADSTEIKINR*DSYIWKNE NWIPISHYMQELTQEGLGSRN
6618	14669	A	734	1017	1880	TLAKWWTRREQRSQ\STQASSYHQWQR VGACGQAARMRSAPAVIPTRPGEFVHQS LESASNSRLQPVTSTGHR\SALEAGLLTG CVLMPGCSASQASME\HLSWSPCPDGCT YRVLRSCPLCNC\SRPDGPEKENHGOEPE AAVRSQPEGPEGGTRAGRPEPGGGPHLQ EPKASETHNPGIPSREGAAQGH\LGSG THVRGGKQPSAAGPGRIARVLSGPPGPR ARGRGCADGS*ASPRARSSCRSGCRSRA AAPRRRRGGAGAARACARGCAGG*AGS AARGSSGR
6619	14670	A	7340	2	362	STHETFSKIDHMMSTSLSKIKETIVLSIPS SSSSSSSSSHSKSNLQNYTNTWK/LNLLQ NDF*VNNEIKMET*KFFEMNDNDTSYQS LWD\TAKAVLR*NRKDHKLTT*HLKELQ KHEQTQS
6620	14671	A	7341	58	341	IKKFRWGPKPPLKEPPGV\SPDFPII/NFGN PGPVPGKDFKFPNFSSSPWGGRAPVVP TTPGG*MGFRP*PPAFGVPRGGDGSPPPG APKEGELS
6621	14672	A	7342	2	428	FLRRVSLYCQAGVQWPTSVTEPPPGFK *F/SCLTLPSSWDYRRAPPRPAKFICF/M* RLYFTILARMVISIS*PCEPPASASQAGNT GVSHRAGLVLF\LNK\PTGLGFD\SHHPYH SQISEKDPPPISSIFNKKSIHTNLLIPN
6622	14673	A	7343	2	686	PGPPPEVRQH\IRVPGTRTGRAAIWPGSFP VGFP\HRAQGRGQSPFPFPGTKGLGLE WKGCCHAGAQETGSPLPIMVHFGSWE MVS\RGKPSS*QLEA*GRGRAPGLGSKAG PRLHQDTPASQCMWVCLNTPSRQVRG PDTQGYVCVPLPPQPHAPRMNQQLPPG APPPPPPSLVPKYFFPSQSSWDRKIPRLQ APPCPPRH/GPPS/AVTNALPNGRLSAEA PWL
6623	14674	A	7344	1	603	SGCSRRCPGPWACWTPQKGFRGGRKRR SGLWGLCCWC\RPHSHRRAGCHHQDGE CDRWGLLP\RDHSRLWIFLRNYWHQLGG E*KANAGGSDRVYQFWG/AGPPSAAPSG AAYLQHSTLNRGPS\REDASFTPVGWGT CTMSTRQ\SPVTPWTASAS*R*EATPVT AVTSM\PAQAQSPRPPTMSSASAAARTG CTWNGWFWAL

6624	14675	A	7346	19	1562	GRYWRVVDHGRESRVSGPRFRP\SFLAA LPPGRHPWPWDAAAGGSPAS*GGAA*S ALGLSQPRPPGASDAAPDSTPAGV*TASS SALIPSRAR*KGSGTLEETKSRPPHSHRS GPVDLSPRSSHSRDSTPVHGPYFRSAPDP \GAPPRPSAGQSQLGGGSSGSPGNSIPCAF VQQ*LERARSHS/SPGSEHRA*SGGLR QGVQGIEVFLGHPPGGYSCGPQPQEKES PPPAHPLGVEIWCRLYIGWKSHPHPA LAEDWQPVPPAAMAVGAPGLRRIQRTS RRWGQCPNEAGHAADPRDSGPPGNYQP VSLHILHMDPGTC*PE*QQHPRPPL*MAG KQWPCT*LDKGQSLGLAGSHQHQCQW W*QQLQSHTSLCRSPPPR*RASAPC*AS WGRSSAGAAGFRALGR*HLGTSLPGSAG SLPPCTAEPADASP*LSPTVLAELGSEG ASEECHSCPHGSPQSLSGSHRPAESQYH VER/WKQDMGPISVKSPTPRRGPTSGSGL LRLARSSL
6625	14676	A	7347	473	792	MLARALDARFLRWCRDQPLVYHSP*PP GASDAAPDSTPAGV*TASSAPAGEKDA NQMEWARR/VPRAPPPGSPGSLIPSRAR *KSGTLEENKSRPPTQSPFGAG
6626	14677	A	7348	3	411	LCAAVNRALDEGIPLTSALYYATVTLTQ VRNILRSDDVSMPLVEERHRMLYDTG KILLEKFGGCFLNCVRESENSAQKLMHS WAESCPSYRDVTLVEGKRASFYKRTQIL VSYTCIVLEGK*DACLQDILSITML
6627	14678	A	7349	2	331	AGGPGLPCVPHLPAGARAWRCQPPGA ACCPGRRLPLP/GKPSPGSSRSRQRGQS CRTVSVLPSSPGC/RGSQVRPDLGPPKA EGCSPWGLRAESCGATGARVRCHRCVV
6628	14679	A	735	1000	1211	VPSTVLDALHILFCLISFLKNKLGWCSGL TPVIPGLWEAEAGLLESQEFGTRLVNM AKPCLY*KYKKLA
6629	14680	A	7350	1	1062	EAGPGGQAARSQRGSSLGLVLPPLRLQR CGAPEGHASPTPAGPGAPNQLAAPWLL WPCA*PPPGLCYPAPPPPPQKHP/GLLPA PRALPSPRELPGEEPSAHPVHQG/PSCRA TRPASASFKSHSGEFRQGLISAHHILOELP GPAGVENFQKVFNAGAAGPAARHGPPSSRS SC/PCTHGTSGNREKPLSTKSKKNKKA WQATTQAGGPGLPCVPHPAKQVLAHGD ASKPPGAACCPGRRLPLP/GKPSPGSSRS RQRGQSCRTVSVLPSSPGLPGTKVRPW *GHLASLVWPGPPGKSPGQSTRPVGLK RGVHPLPQVVGQSRFAILVLFGRQCQEG RAGMLGTCCLLAKPEVTVA
6630	14681	A	7351	423	826	QKVCALT/CLRGITC*IFTHLCVLRGLCW LLGCEMCM*MKYVCMCEK/CCTFVG RC/M*VCVCAGDREHLAECVRGVRHW CTRA*VRMCI/CVCTC/LCV/CV*VSGVCI CKSPCVLCKSIVN/CV*A*THTWFCVHVC V
6631	14682	A	7352	310	863	STHLSLPKCWGLQA*ATLAQPNRSRLK YKFIYMSKGHYSVKVEKQPTWGRKIF WQTMVSG*GGLESRIYKELLQLSNKKTN A*LKSGAKAQHRHFSREHMHGQQHQ QRCLIASLIREMQIMT/LRGYFTLIRMIIT RKSDNN*CWQECAEIGTLL/HYWWECE MVHGRGKIVWQFLKNIQLP
6632	14683	A	7353	3	357	SISNENFPTKESQGPETFTGEFYQTFI/DLS PILLKLFQITD*AGTLPSSFYEISITHPKPE* KSQENYSAMYLMNIDTKIFVHKILATQI*P YINVIIHYDQVG/FIPGMQSSFNVIN
6633	14684	A	7354	2	207	GRVDHTHPGLPRPLCPHSPDP/PQRM*SH SAVGASGLADPYERIVVS*DGNSSSPNH QGDGASQTSGEQI

6634	14685	A	7355	1	801	QPRDPSSGTHHPDGDGRGGQPAPICPRQG SCSHSPLEHAPCPILPGSWPRWHL/DLL SLLGDPKVGPIACPPGSPPHAWTG/PVA CPGLGQPCSCPTILPHIPICQHPKAPGGH PLCSKLLTCLPATPAVPSQPGHIIHPLFIM SGLMGAWPSPEAGPGVLPSTTAE*GTR HWTHEEEAALGATDAVTSPPGFGRQVP APRMPAWKPCIRGLLHSL/PSEKPLQVH RECVQPCEGLGPLAQTGAQAQAWGPT DLSPQLPHRKHLK
6635	14686	A	7356	3	926	SSGTRHPDGDGRGGQPAPICPRQSGSCSHSP LEHAPCPNLPGSWPRWHL/DLLSLLGD PKVGGPIACPPGSPPHAWTG/PLWPVRAL ASPAAPILPHIPICQHPKAPGGHPLCS KLLTCLPATPAVPSQPAIITPCSLCQASW EPGLLQKLAPAPPKLDHVGPRSQPGGPD VGVPVCTPKSRPSTCDTTPPLPGLNEER ATGHMRKRLPWELLM/PVTSPLWLWAA GPCT*DACLEMSLSHWPSQPPPREKPLR SAQGVCAAL*RAGTTLPRLGRLHKAW GPTDLSPLPPQKASKINTRGMESVK
6636	14687	B	7357	73	255	XGSSEQDTCNSNPGCSSPTGNPEWGLR DTALLEDLGKASGLLLERMVDMANNK CLIFRKN*
6637	14688	A	7358	1	710	PIEITSQCGGIPRFAPITVGVRVSSLPHHS RGEGLQPPPSQSG*GSPAS/HHHSRGEGL QPPPSQSG*GS/QPPPSQSG*GSPASGPGF CWGQ/RP/PLPSCSYSPGALQSSRTPAQT QGPAAHILRG'SGPFVHGPPAPSPSCCLLP/ SLRVLPPGLPAPPATSTVCPPLPVCTPP WVICQPPYPLAHQAGLG*LPLGDREGVP FHSPNPSLQVCPRLPLR/KPRPWSGLGPH AHNPMPMSMGRSPPRATWILT
6638	14689	A	7359	3	750	GRGAEQGSHLARAAAVPGSGPAWRPRP RGGLGLRPARSALRAGLPPGRVAAVGR GPALPGQG/HLQSSRTPA/PNPGPCSSPTG EGVPFHSPNPS/H/GKSVPGSSGKYDPLGP VGLCPHAHSPMPSMGRSPPR/GKRGL*P DAQMQEP/SKWGLSGHSPPGGPGKGQW PAPGEDGGHASQQQMPDLPEKLSPSFTP AHLHSLPEA/PVRHEPCLP/HPGCGRQP HPVCARHRRARRAQAQNKACPAAGKK KKKPVPN
6639	14690	A	736	109	346	PRSLSPHRAPPPSVSVGFRPRGRGTQG DKGKCLGYRGPQQL*PHGTPGPTQGR ARGCYLQPGAWGPLLSPWECDV
6640	14691	A	7360	102	380	GKKIPMLYFAIEQCILKFVKRS*KAK*I LPKNNKAGGLKFPDFKTYKAAASKHQ VGGLWKELRSTLQAQQTWVPREELRST SPSYQTQVQ
6641	14692	A	7361	190	375	VIYRVSIISIKIPTTFFTEIEKTYNLG/WND NRP*IPKAILSL*NKVGDIPLDYEYHLN MN
6642	14693	A	7362	102	345	GKKIPMLYFAIEKCILKFVKRS*KAK*I LPKNNRAGGLKFPDFKTYKAAASKHQ VGGLWKELRSTLQAQQTWVPREELR
6643	14694	A	7363	12	380	DPTVCCLQEHLTFKDTHLKVKSWKKI LHANRNQKKAGIAKLISDKIDFKSKTVK RDII*MIRASIHPRRLINSYI/WAPNIGNT*I HKILKDLKGGINCNTIIVGDFNTHR*SRQ KINKHWA
6644	14695	A	7364	3	298	RRSI/NSVAQAGVQWRDLSSLQAPPPGFT PFS*LSPSSRDYRCLPPCLANFLYF**RL GFTVLARMVLIS*PSDPPTSASESAGITGV SHCAWPISFS

6645	14696	A	7365	82	526	NHSELQKLRVA*KMKCTADLSLEKDT *IKLEENR*QERIMLRAEVNEIENKIENIN KTGGSSEKEYYKIDNPLTRSIRRK*T*ITS FRNEKGSVTTNPTEIKRTVKEY/YYEKLY ANKFNLDDEMKKFLKHNLPKLTQKINR KSECS
6646	14697	A	7366	146	588	LPQVMAEFRNPNPGEVEGRKAKSMKGQT TGKNQDNPNVIDEIDFLEAFKNIQPS/LFE ASLGLMGIKPVDWEEIGGLEDVKPEVKT AH/WSLRQKSGHCPV/GARLPTGLLATL GSGSGSGRATEAVSGPAG*KRASIGGSS QRRRFTVP
6647	14698	A	7367	2	1041	CREAAMHALLHSEKDNPNVIDEIDFLEAF KNIQSSFRSVIGLMDIKPVDWEEIGGLE DVKLKLKQSNESPLTFPWEFVRMGLTQP KGVLLYGPPGCAKTTLVRLATSCHCSF VSVSGADLFSPVVGDEKVLSQLFRQAR ASTPAILFLDEIDSILGAS/RQPSKTGCDV QERVLSVLLNELYGVLKTIERRGSKSS QQEFQEVFNRSVMIAATNRPDVLDTAL LRPGRLDKIIYIPPPDHK\ARLSIYKRLYK KPCPIGPDVLENLAAETCFFSGADLRNL CTEAALLALQENWTRPQLTVKQEHVF*N HLRL*NRSVKVARTWLYMKTYLRKKDF LTVEGI
6648	14699	A	7368	1	2046	
6649	14700	A	7369	1	4340	MSAFESVPDDEEVDVDAVPENKLTFDNL AEGFRLFKTACDFLYHMDLSMNEDIEKE VKEEIDPDEEESPCKKHLDKKRKLKEMF DAEYDEGESTYFDDLKGEMQKQAQCLG GRSSVSMQAHRRPVVHGGDSCSDPAAM LTTVKAFTTGGVLQRGGLQQSWQAPIF MDVGEWEQRNWRLNCRKLLWGFAAER SREMKPLLVEEVESKGFEIRERTEGRAV GKSRKSGWCLGCPRTTENQPACLQSDL NSDPRAL
6650	14701	A	737	134	387	PRSLSPHRPAPPPSVSLGFRTRGKRGNGQ RQGEVSWGTGGPQQLWPHGTPGPTQGR RARGCYLQPGASGPFLRPPWECDV*ERG
6651	14702	A	7370	18	731	KEELYGDFENLQTGDVH*GKFGPDSLNE DVQIQEEIDPVEESAKKKHLDKKRKL KEMFDAEYDEGESTYFDDLKGEMQKRS TGKQHTRFPPRAPRHVQLNHAEFEDQD DEARVQYEGFRPGMYVCVEIENVPCFV *N\FDPRYPILGGLGNSEG\NEHVQMRL KKHRWYKKILKSQDPFISSVGGRRFQTI P\LYYIEDHNGRQRLKYPQHMHCGAA FWGKI*LQ*LAYCRD
6652	14703	A	7371	97	373	TYEYFLLLLFLFFRRQSLALLPRLECS VKIIAHS*NVKLLDSSDLPDSASRVAGIA GACHQAQLIFIFVEMGSLSSFLSVGL NQLF
6653	14704	A	7372	1	464	LVFFSWCLFVCLFVLKTESHSIAQAGVQ* RDLSSLQPPPGFNRFSCSLSSWDYRR A/PTMPN*FYCWPAGLKLLTSGDPPASAS PSVGITGVSHCAQPRIVSFTSNILKFKNS LSKGCLIEAYFDKTVKATVLEYLALRNP KPEEHIWGFY
6654	14705	A	7373	181	652	QNRDVHPAASPNPSAAQGS*RAKTHSVE GPLSVGPSPAA/PARSL*EQNPVKHSL P**LSSQLGSPLEDVGNDTLLSRHKPQSP PSRGRPRPEGTRLHFTEPQRLRSSRQPTI TAHVVLPMPLPTPPAAHACPLPTHAR GTSSKQAEPPPSACS

6655	14706	A	7374	56	480	TRPTEHLKLSSAVSPGFCRWPPSAPKAEL SPAVPRS\PAAGAATIAVVRSRWSPGEPR CPLQTTASVRCAPMHRRPVDGACSPPVV *ACRAAARLGPREGPPWDPQSPQSRAEQ KMLPVFGRASDAPFIDKKGFFCLISCCG
6656	14707	A	7375	265	2253	LSILSHCKRGVGCWLFVTALGWDHEQP CAPSTHGRAQPE/GPRVLPGRSRRP/GTQ TLAAPQPEPGECTSQARSGGPVSPHKAG SEAQES*EGSEDPQD*ELQQERTAKNILG KRLPQ*IILYCHSHLGEGPQT*NPGERRV *PPEFGLGCG*D/STLLAEEGSGWRGP/P WPAGASTPLEAQAPV*AGGCGPPAELPP QPGGAGHPGR\PGGGSLGHQAGG*GQ** PHPSGPA*PSA*GPRSRRPSSGGRSQAVS GPGWAWHCPASGPPGTSSFEPLWLWP LPGLPGQQRPPRLSAARGPQAHGPPRGP FSSPGDRHGPAGGPAVHPARHQR*PAVP AGVTQPGAVQLLLPHRAGPLQGPGLGS LAWASCEGPPSLLALPRASWLQTENW CQWLPPPSQVVSCLGNRQ*RPDFAQGIP LRGAPLGPRLPWRGLARAPAGPWGAP SQCQLPWGRHPSGHLASCPGLP/GGSVS GPPSGGPAGSPPTGPGS\GAPGSAG*GPGM AQGGPQEL*GQGPKEAGEADSPSPWPCL QGPPGLWAPLPRALDAPPAWVYPPRPP ASAGGSPCAAPRSPPAASPAGPASGF/SA APACSLITLKQDGGGPSISGPASFLQLAW PPGFHPARLHGPSAREARAGSPGPGAGF SAGRGGFPFWLSAGCPVSPAA
6657	14708	A	7376	58	412	RPAGCGSTRGTCEWARPSAAPCQTAAG GACSPWTPAPRSPAGRSWASSSWPG*C WAPPSGHGAQQPSPSSGQWVVMRWAP AS/WLPSGATPGPRFLALGTIGVPAGPRS PSPSFPTQRF
6658	14709	A	7377	1	1548	DKDNSGPTVLHLTARFGHPKVWNWLLH HGGGDPTAATDMGALPIHYAAAKGDFP SLRLLVRHYEGVNAQTKNGATPLYLAC QEGHLEVTVLVQECGADPHARAHDG MTPLHAAAQMGHSPVIVWLVSCTDVSL SEQDKDGATATHFAASRGHKSLSWLL LHGGEISADLWGGTALYDAAENGELEC CQILVVNGAELEVRDRDGYAAADLSDF NGHSHCTHCLRTVENLSMEHCVLSRDPS VELEAKQPDGSMSSPNTTVSVQPLNFDL SSPTSTLSNYDSCSSSHSIKGOHPPRGLS /KH*SCRHTELHGHAEPRAAGPALGHDWE AHTPTTPTQLPATPAPRHPTAPTPT*LPI SQASC GTTGS*HLHADQEQTTPRGDRGP QEGAE/PPATATTGYGGRTPAASPALSAS SPARGTTTGSWAAAPARRWSHARAWRT ARRRNSL GTTCLTAAPRTPRRPGSSCRR RRRRRRCPRPRVRRRRSRLCPSRALALA AGSAAPPRPPAAPSLST
6659	14710	A	7378	2601	4758	
6660	14711	A	7379	1	741	
6661	14712	A	738	33	509	VSVSVGLRPPWELQVWVLCVPRGQAKT RLEPAGRAPEAPLPALSVLAGGSDSDSRF RQSLSSAAAPGADSLGARTEL RVEPGPS RPRPRPRRPSWTTASTADASRAAGAR GRGNESAGSGAEVRSEQVKRESIGNR* KRKNKTHSKRKKTLQKKG
6662	14713	A	7380	3	5650	
6663	14714	A	7381	1	1131	
6664	14715	A	7382	421	582	LPGAQGMPRPGVQ*PSGLHIPQGGSTRTS GLKAMRSPPKNHQVPDSRAGPWAYC

6665	14716	A	7383	3795	5290	WNWTVHGDGSAGQGPWLHLFCHKRQH GGISWPLVQREGRDEHFRNQREIAPPAG REQTAVQKPQREMFCNSTGRLPGQPTTEE IQV*RV*RPHKIYAEERQFKEEKLAEQ KQAEELRQYKVLVHSQERELTQLREKLR EGRDASRSLNQHLQALLTPDKPKSQGQ DLQEQLAEGCRLAQQLFQKLSPENDEDE DEDVQVEEAKEVLESSAPREVQKAESK VPEDSLEECAITCSNSHSPCDSNQPHKNI NITFEEDKVNSTLVVDRESSHDECQDAV NILPVPGPTSSATNVSMVVSAGPLSSEKA EMNILEINEKLHPQLAEKKQQFRNLKEK CFVTQLACFLANQQNKYKYECKDLIKS MLRNERQFKEEKLAEQKQAEELRMGS GKYLNEHFVFTENDEDEDEDVQVEEAE KVLESSAPREVQKAESKVPEDSLEECAI TCSNSHGPCDSNQPHKNINITFEEDKVN SALVVDRESSHDECQDAVNILP
6666	14717	A	7384	125	605	EAEALENQSQCPTDG/PQSAPSPGSTQH PRSQLSQCKQRYQDLQEKLLSEATVFA QANELEK*RVILSEPLLKQDSKQVQVDL QDLGHETCGQSKNEAEQEETWPPAPYL VPRAPSCRPEQ\SRRGRRYPERSQRRPR GRPPPPCPRIKVKDGKNKTQG
6667	14718	A	7385	310	327	TVKLL*HVGNISLFPSPP*MLNTQWGK KS\FNEWWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6668	14719	A	7386	310	327	TVKLL*HVGNISLFPSPP*MLNTQWGK KS\FNEWWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6669	14720	A	7387	3	642	GKGLFDDDEEDSDFMEAPQDRQAGAS VKESSSSSKPGKKIPAGAVSVFLGDTDFV GAASVPSLKEPQKPEQPTPRKSPYGPPT GLFFFSAPHSKPSKTRKVQSTADIFGDEE GDLFKEKAVASPEATVSQTDENKARAE KKVTLSSYKLNKPSSETK\TKGGLFSDEE DSEDLFSSQSASNLKGASLLPGKLPTSVS WFDDEDEEDNLLGVQ
6670	14721	A	7388	1	3096	MVTHQQPAARKPNMTSKKPKPMGPKA HGIFSGTRKNNLEIYMDQTRTGIAKTKLS KNNKSGGMTLPDFKLYYKAIVAKIACG GSMYNSDTDEDEETEPSSSGQHIENSIT MNKMKLLKAKMKNMNLKSKKHITQVSD EEEDDDGCDLFADSEKEEKDIEDIEENTR PKRSRPTSFADLAARIKGDVGRVDEE PTTVSYEDDRRGKNQDAYTEGGLSTIKT VNCSSSLPSGEAKLRKTL/KEKKERRTPS DDE
6671	14722	A	7389	1	238	
6672	14723	A	739	2	349	PASSIQQGRRACLEVTWSCSIWNPTAT GGLDGRGVRHSREGGGEAPVRVQGPGGE MIPAVPKSSWTLHKMQLPGHVCSTLGR RGDEKGEAGPEAHAYDPSTLGGRGQRIT *GQEFK

6673	14724	A	7390	1	1374	DDIFATEAIKPSQKTREKEKTLESNLFDD NIDIFADLTVKPKEKSKKKVEAKSIFDDD MDDIFSTGIQAKTTKPKSRSAQAAPERF EHKVSNIFFDPLNAFGGQLRSPSRCCQA DCCPPDSGLWVWGALVGLGGARAAQHI TQVSDEEEDDDGCDLFDSEKEEKDIEDI EENTRPKRSRPTSFADELAARIKGDVAVG RVDEEPTTVSYEDDRGKNQDAYTEGG LSTIKTVNCSSSLPSGEAKLRKTL/KEKK ERRTPSDDEEDNLFAPPKLTDEDFSPFGS GGGLFSGGKGLFDDDEEESDLFTEAPQD RQAGASVKEGKLGLGSCVSVCRVPKLSF SLGDGTLRRHGCAASVPSLKEPQKPEQP TPRKSPYGPPTGLFDDDDGDDNDFFS TPHSKPSKTGKVQSTADIFGDEEGDLFKE KAVASPEATVSQTDENKARAEKKVTLS YSQNVKP
6674	14725	A	7391	1	417	MDSSRSVGNFTYQDKLSSSKLTSVLEA VAGEYALVINGHSL/ARHRYP*LGOYLSS EHFCPGLLYLVLISPDFREDWSQRGLGG AETPRCLLERLALSFGSVLQAHLEADM ELEFLETACACKAVICCRVTPLOKAQV
6675	14726	A	7392	3	700	LVKSYLAQFAARAIHSELVSISELAQPLER GTHFPLFLCLQLAKLQDREWLTFLFQ QSKVNMQMMLPGKRKLTCLFCFFNIISR DFRYLEWIYVGQTV*LSCSDNDKHYHRS HL*REIYNLTTFI*SRC*VFFICWVGSLLC YKDLKYLGDICEALLSGQDHLVK*TIR* CRWLCLFESDQNKDRMLEILEGKGLSFL FPTPQLEKDLFEQIKLDPSPQTIYKWKD NI
6676	14727	A	7393	83	3064	GRPRLLPPPSLPLFFVFRSPFSLPYPRRP DPEEAAAFAAAEFLGEGISFLLSPPLTPS INHLLKILRCQAAKVESAIAGGASRFS SSGGGSGRGAPQHYPKTAGNSEFLGKTP GQNAQKWIPARSTRDDNSAANNSSANE KERHDAIFRKVRGILNKLTEKFDKLCLE LLNVGVESKLILKGVILLIVDKALEPKY SSLYAQLCLRLAEDAPNFDGPAEAGQPG QKQSTTFRRLIPKLQDEFENRTR
6677	14728	A	7394	259	1157	EARWQDVGRQLTKTV*PWGRGWSRA SDPRLHAYFSYTAATGKAEPRTAPC KARERLGSCLWD*SPPPPGWRPLRYPT PRRAGPAQFGKKRSASARSTWP*/VMQ RLAPKKTRKEQSANDHPIGGPEGRLFTS QLQLKFRALSERISWLEVSRAVTPTSAA VTSTPSTSKPRQKPTNSQSRSAKPTPG RRCQPGGRCPTCTRSP*LR*ARGRRHGE ARRLPLREARRLPLREARRLPLRAPRSFR KVPSPGQGRSAPQAGVGAGTGRRRRSM DAWGRARSLAGSAGGVISLGG
6678	14729	A	7395	3	432	HIKRVKKNHMISVGTEKAFDKIQHSFIIF FKFRKK*EWGHFFNLKSFS*KVRANITL SGDAFSLILVIRQGCLLLPLLFDKVLKVL DSAVKQEKEIRDI*VGKEEIKLSLFEDDM IVYIGNNK*/SYRKLPEFINEFSKVAG
6679	14730	A	7396	3	504	AASTGGGWVSEFESVAPGSPDTTAAPTC PQRTPRSLE/LPHFQS*TGPCLNISPERS EPGQNRGKPRPHYPGPNQWPGPA/GGC WSKPGSTPALSDDQANTQVDRN/DLQV ASEGEGA*PAELFPKKMKKRLGDLGPGF EGKNGLSTEDKNLIPQAWVPALCGYHV L
6680	14731	A	7397	376	419	VRKYSLCFYIL*NLFQNIKAEGILPNSFNE ARITLILKQTRHSKENKPYRPISMDRHA EILNKISAN*IR*RMKRIHHGQVRFS*/G/ MWGWFNIRKQINV/IHHTHSLKKKNHMI ISINAEKEFDKIRKLPKLRNIYKQNI*LTS* VMVRNS

6681	14732	A	7398	205	1463	VYKKVEASRNEKGWVCGTHAGAFPDEG EGPEEAFLGAETAAGAP/GARDHPPFN HGYAGLLEGPDLQVGSPPHSPGRRQA*VC G*RAPQSDCPGSGRSMGEAGMPPR/Q GPGGLQPPQEGSVFAVMSIGGQGA RIPVRPQPGREGVGQSLQPMKPDGEA ASIPTAGSRSGRCPAGRGRRALVGRSL RP*PPC*PSPR*SPPSS\GASSPGHPRPAL AHNG*SGWATRG**DTAPS*HLLVPKQ LAGTCLLCRCPKST**AKLEEIVPGSFHSP RGSYSRGLGAQHQLPSPASVAHPRCQPA PSAASHG*RRPRACLSLHGQLGMIW*S *APSGVQAQGHTHPPGPDISAERAPAGS* LSQLQPG*DSGGLSGSGCAVPPVAAGH PGSLAWQLPPR*SPAPGSGSPAGRP
6682	14733	A	7399	2	680	
6683	14734	A	74	743	1233	ECGVFSFPFLRQCLVLSQAGVRWPH LGSLQPQDSPGSSRPSHLTLLSSWDLTGT CPPCLANFRIFVETGF/TCFRLVLNS*G SSDPTPQSVGDCRAGSHHTLAVFSFCF EMGPCSITRAGVR*HDHSSLQP*NPGLK RSPCLSLPSSGDYWSMPPCLA
6684	14735	A	740	15	239	
6685	14736	A	7400	658	1657	PGILSLRNALLTGVDCKVVVPVPPGH PQLRLFHHPKTCSGWGEWDHGVVW AGPAPAYHLHRDVQALWTNDHALAW P*AMTSEITLWPGHELSPGRSWRISC PTGLPQGGDDRTGRHWVTATCCSADGL RLCRYGD\GVRGGLPTVAWP*LTGSCSL RYGSGQCCYTADGTQLLTADSSGGSTP DRGHDWGAPFRTPPRVPSMSHWLYDV LSFYCCCLWAAPDPKDRAGLGCTPT*P STLTLASAFGDPHFVTFDGTNFTNFRG EYVGMG*NQGRLEPSGSRAPTATAGTE TRGTGLTAVAVQEGNSDVVEVRLANRT GPER
6686	14737	A	7401	1	422	RPKPKNSF*LGGEKANKIPHPLMIKTLTK LGIEKTYVNIKVIPNRPMACIINGTKVK AFPVRFERQRCSPSPLLFNIGLKVPAIAE KEKEMKI*IGKKEIKLCLSGNDMTLYL KQPKNSPKTIRTDIFSKEVAGYKN
6687	14738	A	7402	247	660	NWSGRRLRMWPSAALSPAVSSPALATS PPKPLVKGRDGKPPAGRPPGREGPGAW R*GPSPTTLGPAKAGSGQRGGRCQP*GP GWRPAASQPLSGCPWCPGITELLESSE TAEQDRGPGSGEDS*TPDFYTPTRP
6688	14739	A	7403	229	1047	HSVQKAKADKTGVDGGSECGPILLSL QSHPRP*P*PLPQKPPEREEVWPKDKLL ASRAGGLVCISLL*EPRVHSCGPGLPVK AELGLLRAQGLPHASPARGNTG/VGL ATE*TGISEHKLGLGN*GVMGDAVR*G LCSEGLCPPSRPWGPMGVCGGLAAKAR PH*QG*VCAPGTHLEGSSVWSLSPQLFP TPGPPAVCSALAPARTPARTDGTIONHL WPVTRKSALPVQEWGGDSWGTGQAQE EGPSVGYPGCP*LPGEGRIPPL
6689	14740	A	7404	595	626	CPMPLVPPDISLINEQTEKEAGDLVCP/A GPVPDSFPLGSEPSHGVSELKTRAKRQR ERHKKGGTEKDRKAERGT/PPGILLPLF VH*SG*CQVAQGALDIISWLKIVPKSVFP GCPLKSWAAAAATPCSPCHPSSHCSPVGV PGRASKFCACPLECP*SPPSPLSLQGPL CPPPFHASPPDGNPGGQGVPLCPLRGSPG HLCAMSRCLRWNP

6690	14741	A	7405	1	603	EMESRSVT*AGVQ*QDLSSLQ/PLPLHPG FKQFSLPPVSPSKLGITRHTAYLNFFVFL VGDGDFAMLARLVSNSSSQ/CDPPSSAS QSVGITGVSHCACLTCSLCCQTMCFVLA SRYF*FWDGNLFCYNLQIGDVYFIFIYLF \MRPSYSITQARMQWCD\LGSLPSPPPRF K*FSCLSLPSSWDYTQHAPPCLANFFVFL AEM
6691	14742	A	7406	211	387	PNLG*LNPPPPGLKNFSLGLP/SKWE*K GQCLPPGPVNFGLTKLGVFPCPGWLE IYN
6692	14743	A	7407	3	326	LSGVMLSPGFPGYLFST*CIMDNKATH RYCVYISS*IFLQK/HIHDYLEVRRGSSE TSTGIGRLNGPQIPCFLLSTTHETSLYFHS DYSQNKQGFHIEYQGERSNKK
6693	14744	A	7408	1	553	SDPRTEESHKMLTD*RSSYLSLTALPF/P LPKSEAITRNRASRAASLVRTPSKKDV GFLQKPRLRSCSPSSRCPPGSAARST*AA GTACGCCGTSPRQR*APGALGLRRPPQS *GRRSSPRPSLTHPSSALPPPPPTSPRTR YRG*SRAAPLLSLRLPSGKLFQPTCRPRV SLR*RPSQRVE
6694	14745	A	7409	3	377	KLSPSKPILASTLMGPIYHSKVKF/IPGMK GQFNIQKSIIMTYHINITKNKNDMVISSSS SSSSSSSSSSSSSSSSSSPIEGNYFPITKE/Y EKSIANIILDS*KLKAFS/LRSGKRQGYLL SLLFN
6695	14746	A	741	2	311	FQLDTGSRAPML*CSGVIMAHSIAKSLQ TPGLMGSFNLSLPSRWYRHIPPYLANF LIFFIEMGSCYITQGSHPFTLNGLSLSSLA NKIQGNIGSDLVEDTG
6696	14747	A	7410	1	409	NKVVFHNNKRSIHQENKTILNVHVPNNKD PK*LK/QLTKLTEDTDSSIIIVKDFNNPLS/ TL/DRISTQNIS*DLENLKNTMNQLDQINI YRT/LMPSNTKIEHMMGHKISFIKFQRIKI IQNTFSENGVTKSNRYLENPKL
6697	14748	A	7411	3	414	KGQDLYGEV*KVLLKVIKQVLNKWKD MSCSNN*HTNFISN*NCIKVFF*LDEI/CSF V**NKC*RIAKEVLSSSQ*CLGGHL/TSPH IRRSYNTTFSQSIWCCYRTKQID*WTRTQ NPEKDRLI*GDLIYDLRCCSSRA
6698	14749	A	7412	3	333	LIKEGQIQKLSAKNGTPQDRHLFLFNSMI LYCVPKLRLMGQKFSVREKMDISGLQV QDIVKPNTAHTFIITGRKRS\ELQTRSSR ATIEKHKQNSETFKAFGGRLLARD
6699	14750	A	7413	3	391	EEDIVNPANDLIKEGQIQKRSKNGTPQD RHLFLFNSMILYCGPKLRLMGQKFSVRE NMDISRLQGQDIVKPNTVHTFIITGTKRS LELQTRTEEEKD\WIQIPATIGKHNQM GETFKAFGGPLNQGW

6700	14751	A	7414	3	1811	RYIDVLGRRYTAPGLG*LWRHPAQSAPV TAHCGDPVSLAAAGDGSPDIGPTGELSG SLKIPNRDSGIDSPSSSVAGENFPCEEGL AGPSPTVLGAHAEMALDSQVPKVTPEE ADSDVGEEPDSENTPOKADKDAGLAQH SGPQKLLHIAQGFAPVEETYVVKRLHL DQ\VFCTRG*RMRGIPPERSSWGHNSLNI FLPFQASHGQFLPELKTRITEEWDITNP RLGDILQKLAPFLKMYGEYVKNFDRV GLVSTWTQSRPLFKDVVHSIQKQEVCGN LTLQHMMLEPVQVRVPRYELLLKDYLR PQDAPDRKDAERSLELISTAANHSNAAIR KVEKMHKLLEVYEQLGGEEDIVNPAHE LIKEGQIQKLSAKNGTPQDRHLFLFNSMI LYCVPKLRMLMGQKFSVREKMDISGLQV QDIVKPNTAHTFIITGRKRSLELQTRTEEE KKEWIIQATIEKHKQNSSETFKAFGGAF SQDEDPSPDMPITSTSPVEPVVTEGSS GAAGLEPRKLSSKTRRDKEKQSCCKSCGE TFNSITKRRHHCKLCGAVSPGRGGQGE ATLSSALTEQLSPHQHTSHAHQPCTEG LPDPGSKI
6701	14752	A	7415	189	392	KQKWEKKQLKKSPPGPGAAAHTCNPSTL GG*GGRITRSGNRDYPGAQHSETPSLT*N GKNLGRGMVGG
6702	14753	A	7416	2	325	SHAGCLIRFWKSMTPTHTSLPTPTFLGT CEASFLEPRASVPVPPQCSMALRRYRLDM GQSFWGGLPSSHPPDPSRPGFV/PGVGHV PGQEGPGGKPADSS*H*DPTGG
6703	14754	A	7417	9	1430	NDNASFGEVYYHPYPPVGSQCHDESGA GFPPGPSCPGTWPTPALKPREGSGGWL LGQASPVTAPCPACIF*VPCCTGEGQG WLGAPGKDASH/GA*KM*GVKGRLCVG APEGAG/PSQGI*SFFTET**AHPQNGLYE DEHKNSRWGHPHP*QWNWDRTS*CNI PSRP*VPHPWVRCAGLEPAGPGPHRTT PSQGVILFLQKRIKQPACEPYALFTPLSP HSSPASARPGSPSD*MCRAPEDESCPEMA LLPGMGPPGSGERCSRAPSPGAQVTGGV PGPFTWGSGESRCFRAPSPGASGEEAKC SRSPFTGGSGESRCGAPSPGAQVRAGV PRPITWGSGESRCRPPSPGAQVRTGVV GPFTWGSGESRCGPHLRPGS\YPVFLA PERKGPQORSQEKGHKRGGSQAAPKPSS R/PQESPSPLTPSGGPGS\GRNGA*GVSEG *SAPGSGGEEEDVFGC*GPPALGPEG
6704	14755	A	7418	1	389	HLTFCHHHYDDRVRGLYKQKCECPGIPR VYRIRHIGEGRLVYLQFKDHPGHIHQPLE PQVKYVGNMHSNKAAGR*LMLQLSEFL CEEIRNKNQRIVQLIQDTRIHLPSMNPDC YQGG\WAKGPNKPWLC
6705	14756	A	7419	31	392	KHNRASTPPS*KKSSSPVTTKGR\YTKTP HTDVPQG*QPPYKQRRGTTSSSPFSFISY SIVLSSSR\PPHPGPTSPRLHPSRSHLSEV PPLTQVPPQLQGPVPHDPTSPWLYLSPSS YLY
6706	14757	C	742	398	574	
6707	14758	A	7420	2	704	TDSKCPFLVHQAHAAAM*KERHFLTANG SCIKFHQDINRLSSVFLP*ELVVRHCRG HQKRVDEIAKGNRLADQRAKSAVRRPQ GPKTLEAPLIWEGYIREIKPQYSP/DRDR MGHLSRYTFQPSGWLQSEDCVRLPASS QWKILKILH*AFHLGKHKTSVHPKIVLRR KSTKNGQIGC*YS*NPLKNNPFNR*LLPH HNQRMGSYSGEDWQIDFTHPKINGIQC LLEWVHTFI

6708	14759	A	7421	2	705	FSRDEVSPSWPGWSQTPD/LRDTF/CLGL PKC*DYRCGPPHLAESKFYFPII*KLYHS MLCL*ADSKS*KPMSLFLLFLFLFTQN FALVAQAGVQWHGFGSLQPLPPGFKRFS CLSLSSWDYRCLPPRLA*/FFVFLVQMG F/TMLVRLVSNS*AQ/CDPHALASQSVGT IGISHCSWPNVIYIITM*IFFSIPSPILLIR HLFFLFFFETESRSVA*AGVQWHNLGS LQPPRL
6709	14760	A	7422	33	775	VMGPAPAGEQLRGATGEPEVMEPALEG TGKEGKKASSRKRTLAEPKAGLLQPVK LSRAELYKEPTNEELNRLRETEILFHS\SL LRLQVEELLKEVRLSEKKKDRIDAFIRE VNQRVVRVPSVPETELTDQAWLPAGVR VPLPKCPMP*RACFR/FLAPKPRITVCEA SYLSGQPSIRPDINVDVALTMPREILQDK DGLNQRYFRKRALYLAHLAHLAQLDPL FGSVCSYTINGCHLKPSLLLRPO
6710	14761	A	7423	74	576	LCWQPIRWWSPTLRANGHQK*/SGVAILI SDKTNFKATAVERDKEGHYIMLKGLVQ QENITILNIYAPNTGTLTIFIKRLIDLRNEI DSNTHVGDFSTPLTALDRPPRQKVNET MDLNYTLEQMDLIDYRTFHTTAETTF YSTAHGTFSKIDHRIGHKISLNTFK
6711	14762	B	7424	158	346	XLSQGEVVPQIPVKSQGGPHGAGVLGLHL EGPFISREKRGHAHPEAHLRSFEADAFQDL LATQGQX*
6712	14763	A	7425	1	1768	FFFVTFVMYFTTIFKKQTKTNLKSASPTP QNHP/GSSSLAQ/PLSHDPGPLSHNPGLA LWDQPSLPAPPRSSQGGGALCGEWGQ\ PGPKAGPLTSS/GDWGVPSEVGDDQHA SSGF*/P*GWGTFKH*QPASLGTGRCS NTSAENLTCLSLPGSPGKTAPLPGAQA GAGQPLPKGCAAVKAEVGIPAPPPPGG QDPHPSPAFLGSPGACGLRSTPCALPQA LPQARPCPGRWFFPWLFPFQTGGAPDHP ISLDPGDISFNWALQQEGKRTSARA/RGA YLLCPRTAP/GKQGGREPPTPELKWRESQ DNHP*RGAAPIDV*PHCGCPQSQEGSRS PPASKLFQGESRPVFATWVCSRAKGTOK MAG*H*WGEQGTLPVRHTALQHQAGSP QPASTGPGDV*RDRVIEKRKQNAHPW HSGLGSPGSKNRGPSPSLPPGGQSGAPG NCALAQEPGCGF/TRCTPQTQEQKANP*L STLPVTGPLPAGSSPPAHGGFTPWAPAT* LPAPPSH**HFPGVCRSPVP/PSCRQALSP TGAQGP*TTAQPSHPRP*MPSPGGQP*G WCHM*AQAKPGAKASPAGCTF/SQPPPP GRR
6713	14764	A	7426	36	620	QHLKLLNIKNHTGEKS*KCKECDKAFK WLSHFIIIGKIVHTEENFYKCEQCGKTFNE CSHLIAQESIYT*KKMYKYKDHEKAINIY SHL/NHWRVHT**KEYKCNQCQKIFQ/INI NL*SEGIYFEDEHYKCEEGCSTFICITDFI VHILY*KKTLKCCSNFVQHQQIYIEEKL KFNF*KTLPQKVQLRRHQSSY
6714	14765	A	7427	3	276	PKKSTEKLEVISNNSKFTROKANVQKSI TFLQYNSNEQVKFKM*NTLP/YKMKYLG ISVTKHMQDPYEEKYKTLMKDNKEEQN K*RDIPCL
6715	14766	A	7428	125	456	LADWAHRAPASPQRNGADYAVYINTAQ EFDGSDSGARPDEAVSWGKIRVDAQPV K/VKRWLGGGA*GLWDDECGSHGLPRFPP TQVYAAASLVFPLLEAETFAQKMDAFT HEK

6716	14767	A	7429	1	571	LSGKEVRENGIHRMIGNLLAVPNEINYCKF EDWLPILDQMVMEQNKRGGFGLKKW TPSKMIARLGKEINNPESVYYWAQKNHI PVFSPALTDGSLGDMIFFHSYKNPGLVL DIVEAERG/ADYAVYINTAQEFDGSDSG ARPDEA/VPPWVGKIRVDAQPVKYANAS LVFPLLVAETFAQ\KMDAFMHEKNED
6717	14768	A	743	3	862	RNERHAYDKGTWKTRRAIMTVQ*SGET NVDRAYNLLYQTLDDWTDSYVTC*ENKEI AAGQRNESHSDWTKYQVWEWLQHL DTNQLDANCIPFQEFDINGEHLCSMSLQE FTRAAGTAGQLLYSNLQHLKWNGGHTG ISKSKETRHLFPFFYLPGHTLATCRAV SKRLQPKLQCAVHSFVTPGIPYLDEIGYR ARDLREPQQGVAAALLPLSSDGNPRRRPG LPKLKAQRRVRFPSNKGRRGGPSSPPFHS AFLNWQHKNVWMVKELSSYLGPLQY YPGSFGGAI
6718	14769	A	7430	1	311	RRVSSESRRWSLESRRGRSLEIQGRMERPR CQRFRENSCVAPRHCKGPGGKGLQALF* VPVAQLGEPGAQLGDPGAHGEATVPEV QGE/PAALLPGTAKPGGEGSPGFIPPRHC RGTGEEGSPGFTQGRETSAQQRGTGCLL SCRGCLCLSVSGDS
6719	14770	A	7431	250	503	DDEKKSKEEVWVGSDEEDDNGKDKKK KTNKIKEK/YIDWEELNKKIKNIWIRNSDDI TQEEYREFYKSFTSD*EDHLAVKHFSVE
6720	14771	A	7432	3	540	KRRGSFKMAELYQLPDESSSAKALVSLK EGSLSNWNEKYSSLQKTPVWKGRTS SAVEMPFNRNSKRSRLFDEDDRQINTRSP KRNQVRVAMPQKFTATMSTPDKKASQK IGFRLRNLLKLS*RH*WGIL/AKWFYSNI DKPLFEGDNDFCVCLKESFPNLKTRKLT RVEWGKIRRLMG
6721	14772	A	7433	3	322	FFLRWTL/DTVTRGGIQWCNLGSPQPP/P PRFKRFSCLSLSSSWDYRRPPPCANFLY F**RRGFTMLARLVLP*PRDPPASASQS AGITGVGHRAWPMPIFENRFDL
6722	14773	A	7434	22	475	PRMISCRPTRPPTRP*SHSAPFRHFLLVHP VKAKYFLSAVMTTHHLASASHFPFAA* SATFPAAPQPMWTSDLPPSTCLPLGTS PLPSRLLPVSSCS/SFPDPTQMPPLPSTVFP GLPFL*PHSSALSLPL*LPHGFALESPSSV PFPT
6723	14774	A	7435	14	362	LFYQTFSNVN*KT/RHKMNK*TEDFNNTI EQDLDTVTFISLHSTVEYAILLITHATIFI DHLLS*KTHLSK/CSADGITQIIPNYDTIK QEVKNINMSKNK*KLNNKFSNTLLFKR L
6724	14775	A	7436	1	440	SPFPPKNFYFSLRPLIFLRGVGPKLPPPKK RVFSKNPPEVFKSPPLKKKNFSFPPVNL GPPKDLLKG/PPSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSPDRERPPTI*N*PTRP
6725	14776	A	7437	8	487	DEVSLVAQAGVQWHNLGSLQPLLPQFK RSSYLSLLSSWDYRCPPLANFIFISRD GGFTMLAARLVLS*PQ/CDLPASASQSV VITGVSHCAR\RAPSF*MSASGVITCVGW ELFGMSHPVAEANDHLSGALVPFSALFVS HFMPGLLPTMFCPLRGCE
6726	14777	A	7438	1	445	IDCWHKCCQDNSMGKDNLFN*SYWDYWI SI*KKRTSNLISPIHKIES/RWIINLVNSK ALFRRKQRKTLHDCGLGNSFVEETQKAL TN/WDIHKLQ/SFCSSKYTTKKLKR*ATD WGKIPTLFAKNNNDKICEHTHNKRRYM FGQMHVKKWA

6727	14778	A	7439	131	763	PGISADSRGQKLS*WGPSHQPPPGPLKG SAPGGVLCGLVGPAAKHALRPSFHSGA PSAGNLGCFAAWASSLNSNQSPSSKG HIPKDRGEPRGTVP SLRKATATGRKAER LSDEGRSSVHG*AGIPGHEGNAKENRDR HPWQLPGIASAAVVIASGRGALPPGGQA GPQKLAPFSSLSVPGGARWG*AEGAPS KQRGKVTGEPGRQC
6728	14779	A	744	15	404	RNFRVDDLVS PRCCGILWFFTQGGASCW RPLATLPSRQKPGSSPGKAGCWPA/WDL GLVPHGVSGVSIAASSTPQGGAVCSPSV AAPSTLLLLRTHLLGAASLQGCQHILL HHLIGMDLYVAASPSHRFW
6729	14780	A	7440	47	265	
6730	14781	A	7441	1	330	HHHLAPFSSLPFNIVL/EEVLARPINKEAK *KAP*LERKEVKLPLFAEEIQEMIWIYIDN SKESTKELELINFIAKATRYRFHIQ*LVF LYTCNNLK*KLIKYSINLTKV
6731	14782	A	7442	3	423	NNALLNNPWVKGAIPKEVRPYLD/TREN KVTA*QNLWDALKK*/CSGKLIALKE*C QINNLSFPLKIPEK*EQIKSPVNIKNVIFK KLKIKKGLKV*KK*RKISETKSWFLEKVI KIY*SQGRHARKKNEKSGITRDSRTRG
6732	14783	A	7443	1	689	YIYISYINIQFVFL*EHLINKFLSFVYQ LMLKH*KKRTTNTLFTLRTM*AFLFYY QIICISYVIAAVLFCI*IFFP*HLCLLVLF MYFFNLRFIPLLRSDITSFHYMPLFGRFL SC*SKQEHLHNCQPGIYFINLLVWKHFFL DVIFTLVYFVG/FALILYDFLIMSVC*TF YLSLFISR/ACLLFYPHI*LIFIWAYISRLEII SFHTF*GIYTFASEIVFIIF
6733	14784	A	7444	3	545	TMLLFTLQNRCTSSHCPMPAPALCPGK LTVGTGSMGPR/SPWPPSSANA*PVDKP SGQEG*GQCTAAAPPCRVAVSLSKVRAP GDGLSCGSSCPPG/RQGRGVPCPAAGER REGREDLKPRE*IGSCIKNKLGISPAK*D* KNSQDKSKKNPIGDRTSLAVGTVPQSTR PRVPLGYHYCY
6734	14785	A	7445	243	768	NLPNK*QDEGRGGGAEP PPWPWG/SLPPR DVEAPSPRLGAPAWPPAGRGWPPREG AWLG*VLCFRKRSPLPVLGVAGA*ASVG GGCVGRCLSGAWPPPGVGDKPSPYCSE RPAASFP/PRTCVPNAEGGERAPRDSR GEGSLPCCRGEERGQGLKTTRINRFVY QE QARDFTS
6735	14786	A	7446	596	1335	LEQITFSVATAMDSRFPDFQDLDEPERA CHDAAGTLEVDFFLFLNFGTVDLGRKE TTTEQALPPALLGIRRPFLSRPSVQTED APSKVNYVLCLLIAECSPGPSDYLP CAIP SAYR/RWYLD FCP R*FLPPYY*RRHPFQW TTVTQEA FSHHDVAFTSTPVLFY PDSAQ PFIVKSESSSQA KAALSQQRPSLIYERAL HFFS*SLQRHTIDL DQGIF*ILMLSEERQH LFESSIGPHPTISKD
6736	14787	A	7447	199	450	ERSFSKKMP*NPPGGGEPP*PTLGIPSSPP PHLLGPKFLEKIFGLPGLPGGKIFP/P/GFA FGPNLGGSGEIPGGINPRSLPLGER
6737	14788	A	7448	154	695	GLLSNLLISIFFIPPKKSAPKYQH KMHSQS FHIFCFNTHFNFLNKF/FNELQ/K*HEL KLE*SKILYNQNKPSV TYREIMQLRAQL KKIIDS VKHKRTWQGLKQGV/YWGFYV NVIGKSFFYFWDKYFIFIDWAKNTRLIN MGPERPTVFLPNFIYSQSTKLALNWWINI MGQFIPSYSVSA
6738	14789	A	7449	203	443	FFVKGPKNTHW/RKDSIVNKWC*KN*IST CRRMRLDTCLSLYTKIK*KLRPIESGTE PR
6739	14790	A	745	1001	1459	

6740	14791	A	7450	8	312	QTLALSPGLGVQWRDLGSPQALPPGFMP FLLP*ASQISRDYRRPAN/LMPGPNFFIFQ AETGFSTVLAPGWC\DLPLVIHSASASP SAGITGVSHRCPARTF
6741	14792	A	7451	1	2554	MKVWLLLGLLLVEHALEDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKIPKMKDR DSANSAPKTQSIMMQVLDKGRFQKPAA TLLSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGLLREGQAGPMGSQP KVNPPPTMARVPQVEPPVGETWESSTLLA DGAVDKRSSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVA ASRCGHLTFAWQNQYISLERLSVYMCRF VTWVNCMSRFGFVDYFIIQVLKLIQVLP PDSVHPRSHKHLLSLRSEIAKTTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLT SWLGKGPILPKYVAVS VQLSRAGACFSDVTHREVLMSCYMVV GGDFLLGGSVLCVQVWFVWFVVSRYTLLI FSESREYLKEEEELFLCKGPGYAGQVRK KNDDPSSVKQNERYGQTLVNSTADT GEFSCWVQLCSGYICRKDEAKTGSTYIFF TESGGRISVLVNLVLTAEQELLAHEPFDD VSRNSAPNLKHHILT VTQRRQVGGKAKK NYLFQEHCGENTRKHVIRIGVSLALKISL CKYCNIPSONDPEKQRIQCTMPKKKSHQ HQKYPQKPSPEFLACPKDRIEKGEFVFP SPSYFDVVYLNPDRAVAVPC/PGDRAVG QSHAPQGIPSQGDPSQWNGHCL*HEAGL CVSATSFRAPGCGLLQGGGRGQISDLRQ VPAALRGGPNNSSKPAFCSSCHMQAPW* V/LAALSRRPQFPPLSPPLSLLGHQVTG IPSGPPSTILASSNKVKS GDDISVLCTVL GEPDVEVEFTWIFPGQKPPSRVTGLWAG TWWCLYRVL
6742	14793	B	7452	1	2586	MKVWLLLGLLLVEHALEDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKIPKMKDR DSANSAPKTQSIMMQVLDKGWFQKPAA TLLSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGLLREGQAGPMGSQP KVNPPPTMARVPQVEPPVGETWESSTLLA DGAVDKRSSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVA ASRCGHLTFAWQNQYISLERLSVYMCRF VTWVNCMSRFGFVDYFIIQVLKLIQVLP PDSVHPRSHKHLLSLRSEIAKTTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLT SWLGKESREYLKEEEE LFLCKGPGYAGQVRKKNDDPSSVKQNE RYGQTLVNSTADTGEFSCWVQLCSG YICRKDEAKTGSTYIFFTESGGRISVLVN LVLTAQELLAHEPFDDVSRNFAPNLKHH LVTQRRQVGGKAKKNYLFQEHCGENT RKHVIRIGVSLALKISLCKYCNIPSONDPE KQRIQCTMPKKKSHQHQQKYPQKPSPEF LACPKDRIEKGEFVFPSPSYFDVVYLNPD RQAVVPCRVTVLSAKVTLHREFPAKEIP ANGTDIVYDMKRGFVYLQPHSEHQGVV YCRAEAGGRSQISVKYQLLYVAGWMFS FLVMTLTENPSSPFQPNPSIVHSGAASVL DQQSQQFIQACFLFLSHAGSMVSAAAL SRRPQFPPLSPPLSLLGHQVRGIPSGPP STILASSNKVKS GDDISVLCTVLGEPDV EVEFTWIFPGQKDERPVTIQDTWRLIHRG LGHTTRISQSVITVEDFETIDAGYYICTAQ NLQGQTTVATTVEFS*
6743	14794	B	7453	520	600	MIDCVFGAELAESLSFILGILGFTFLL*

6744	14795	A	7454	78	624	TNKSQGSQGLCVAGPRACQSSPVQQR NVPPLSILSAPFSGS*GL*PCGGVLGATG GAELMGLLRWCPPGVCTVSLGQQVGS LSLESEPPASSLNNRGLLREGQAASVGG QPKVTSPTMARVL*VEPPVCETW/GPHPS WQMGPLPRG/VWAGPPQTPPCGVTQLA ANGKQPVVRKPGSY
6745	14796	A	7455	3	369	ISQPPKNLGPPKETYKRPPSSSSSKKEFPF FFPGESKGGVLSPRKGSSSRVKPFSAPT PKKGGPRSSSSRGGKSSSSRNFKKGGFP G*PRRFFPGPGKPPRPPKAG/H/YRGK PPGPGPK
6746	14797	A	7456	2	648	QTLPFKGRLPQEDGLGIRRPSCRPAWP CQGAACPLPASLQVVPGHQMDPIQLVP PFLSPARLLEL*EGRQKGRWGRPSQAG GQEKQLSSSSASPTAERARPPRAGTYG* CLALP*VTGGVGPMASLTLPVTTGMGQD SRGNR*EGPGVR*/DWGCSPRER*EGGTG VALEERGLLQREQKTSRGVGVSEPGFVF QRPALPGPWVCPRLHKRLA
6747	14798	C	7457	89	376	
6748	14799	A	7458	3	864	MNFSPLFSPNFGDFSQNIPTSEQQOPLA QNSSGKTEYMAFPKPFESSSSIGAEKPRN KKLPEEEVESSRTPWL YEQEGEVEKPFK TGFSVSVEKSTSSNRKNQLDTNGRRRQF DEESLESFSSMPDPVDPPTVTKTFKTRKA SAQASLASKDKTPKSKSKKRNSYSSWK SRVKNIRYESASMSSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIKCNRST EISSETGSDFSMFEALRDTIYSEVATLISQ NESRPHFLIELFHQLQLLNTDYLQRAL
6749	14800	A	7459	2	743	KASAQASLASKDKTPKSKSKKRNSTQLK SRVKNIRYESASMSSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIKCNRST EISSAHARRILQSNRNACNEAPETGSD SMFEALRDTIYSEVATLISQNESRPHFLM ELAFHELQLLNTDYLQRALYALQDIVS RHISESHEKGENVKSVNSGTWIASNSELT PSESLATDDVFIQEK*KYASQKHLHINV HSIFSHDSLKLKHQING
6750	14801	A	746	3	357	
6751	14802	A	7460	1	336	IYFPTPEKFGPPKETLKKGAPSSSSSKQKF PFFGPGGKQKGGFGLQTLPPS/RSSPFP QPPQEKGFQGRSSSSG*ICIFKKGGFP WAGGVQNPKNPKGFPPGPLKPWG
6752	14803	A	7461	1	3010	YRIPGGGTWQSARPRVGSRRVADGEGA RRGLCSPSSRRWRPQPPQPHCPGRAPA LSCAAAAPARRPRGHAESRRDGLGSAE EEESWYDQDLEQDLHLAAELGKTLE RNKEGLSLQMYSTNEEQVQEIEYLTK QLDTRLHVNEQHAKVYEQLDLTARDLE LTNHLRLVLESKAAQKIHGLTETIERLQA QVEELQAQVEQLRGLEQLRVLREKRERR RTIHTFCLKELCTSPRCKDAFRLHSSSLE LPA
6753	14804	A	7462	2	190	SSNKKKPPNKNHPEPDSFKTEFYQTF/INT P*IPILKLFQKTELQEILPNSFCV SITNSS TRR
6754	14805	A	7464	359	1095	PKGENGNLWCGASLLNARMRAGNKSP LRLPPGATKSLPQGALQFQPLAEPDSA AGLGTGGTPRLTEVGGAL/S**RSGSGFP ENQKGPPDPASGYLDLMHTPPFSQDPIS PASHMPIPSWSTLFSVEDRRSRQKTPGR WGSRCGLPHTCSILVGGVTREGVEMLP MGTCGKCAPFAPHLAASSNSVLTAGDP APGAGRLGSAQAALGQGGGRRSQAP PRRALQRPHAWVETTSQWRSAG

6755	14806	A	7465	16	405	VGAIQRAPAPPSCARCLHTPDIRATLTQ TPGGGLTPQQEKDHEHGHGDRAGHS VWVLDPGTCSRRRRWFSPLYLELLRSS GECRG*SPASPSLSHHTAHVTPKAFIEHL LCARCKEDSGITGQGAF
6756	14807	A	7466	16	255	ARPSPCPSWSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLAKLMTYFKNS TYLIRLFMIYRCKPVKSKKKKRN
6757	14808	B	7467	1	1026	MRARRLPWALTVAELGWDTPGGDQT SPGGNDRMSMEAECSTTVSPLSCSIPTG CGQTREEVSARATPPPSLGASLLQTLTPD THCTGVSATIMSMMLVVFLLLWPFSSST LAKHKRIHTGEKPYKCEECGKAFFRSST LAKHKRIHTGEKPYKCEECGKAFFRSST LTKHKIITEEKPYKCECDKAFKRLSTL AKHKIHHAGEKLYKCEECGKAFNRSSNL TIHKFIHTGEKPYKCEECGKAFFNWSSSLT KHKRIHTREKPFKCECGKAFIWSSTLTR HKRIHTGEKPYKCEECGKAFFRSSTLT HKTIHTGEKPYKCECGKLLSTPQPLLN K*
6758	14809	A	7468	1255	2710	ARPSPCPSWSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLANVTLCQAR LETPDFQLLKNQVAQEPVHLDSPAIAHQ FLLTGDTQGGLPLPLGLVHRMDPAEQAP WS*QGPKALFNSTPPTESLPAPWLSMAP VSWITPGPETTSRRCRGVLRGVTFLLRRE GDHEFLEVPEAQEDVEATFPVHQPGNYS CSYRTDGEALSEPSATVTIEELAAPPPP VL\STMESPPRSCTLGKNTLTCTVAPLSG SGISSLRGGGERAAGNPGGSTSPDRIFH LNAVALGDGGHYTCRYRLHDNQNGWS GDSAPVELILSDETLPAPEFSPEPESGRAL RLRCLAPLEGARFALVREDRGRRVHRF QSPAGTEALFELHNISVADSANYSCVYV DLKPPFGGSAPSERLELHVDGELAGHOR GRARVQCPSGPPVFPLFPWASDGGALGL GSAPIAYPGGEQAIGGRGSGDAWNFLGF PTDASP
6759	14810	A	7469	3	1312	GEAGRGGSTGLGAGQGCATSQGLAARS SWGHRVGHQLGSRGPTSSAQ*GAAA ADLQAGRHS DHPPT*AA*G*NLPAE E*GGPRAGAPAHASCPDPSAGEPGTGA GAARRWHQGLCSPSGV*PQASPGSSPR AQTQSPGAAQEHHEPRE*AAQAGERPA GGSEVGAGASGGPAAGTGACGNPGPA AAGSPRGGQGSRAATGHTGCGAVQLPR PAPSGRG*KCPAAAAAQETEG*VRPTAA TLRLAGSGARRWCRPSASHHGPPDIPGG DSGGHPGSAPQP*AAAGPGCPQLPQEAG GSEPQA*RATGCLQGPGRCILGPDPEAP GLLPQHPRAGTGAGTAAGPGHDG*RA TF*ATGVRGPAP/EAGTSTKS*G*GSWQV QGTGPKWGLCLQPSPIQGAATRPSPK\ GRAEQSSSASTEPSHPAPRKT
6760	14811	A	747	461	791	ESLQTGLTFTKSDMDLLPHIGPCR*DG AVSGAPSSNSFTSVAGSTRLAKERGDH HLRKQPRWEVHGAVRRVHRPFIFHLR KEAACCLFPPTLLPSRQQLPLSK

6761	14812	A	7470	1	1987	MWEP CGS QGDT/GVFGCRDR*GG*GAA GCAGRPS PGDRGQWPHACGGGGRGHPS TSTGAPAGHGEEAASEQRLLSGGPLRPP GPH*AH RHVGP GAGRGLC*LGRREPQHR VPSRSAPAAPGRLPALPFLDEDKG*AEPR EAAPRRPRAAGHSPGHVSHCGEAPGGL DHLHL PQ/SPAGMGSEHDGRSGQC*PSR HTSP\TRLQPSPPDTHPGGSSLPAPRPAL SCWARVFASLGDQPAFLGGHTGPPDAS GEFQHKH*PS/GPLSSSSFPGAPIQGRQRT ESLPGTC*GMEWPTAALG*RGPRVTAT PGTPGGAPTS/GFP/GCQAQKPEAGLVVA NGTMCCPAKHTWRS GPKIPTLISILPLL LHGGAVSLGSP PQGSALRPAPASLGPCV TDKSIPSLAQNTKYSPDLP*ET**HLPECS RGWGSPLLVLHPLLGHILVSAHPLPGYK ACPRPLNLLGRFGA/QGPRGSLSRSSRG */PGPAPSALGVSGSPSSHPPN/GLYAEAH RMGFLPDSKSKNGLISKCKLTFHPQTSK PPAPISP*SKTSGGRKNRLPGLHSQQSFG RMPPGMP*APSVYLLPLL SHPLPLRTAG KPSSL PQPRSPSLVSSHTRAQQLSLSVP*G QPCVP GHTSTRQGLP PHL SILPAEL PQSSF ANRGIKASLRIRK
6762	14813	A	7471	2	353	DRKEERLRS PRSGAAATRSSGGKGVAE WDPLPCLDP ELWDQFDNLKNHLSLEKFII SAKERTIEI LS YTKQLRNLKTCQPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V ITLGSIKLSSLSRS
6763	14814	A	7472	2	390	PLDPQRVKIEDKV NKS RSS*KN/LGLEDL GTYSVIVTDADEDISASHTLTEELEK LK KLSHEIKNPVIKLISGWNIDILERGEVRL WLEVQKLS PAAELHLIFNNKEIFSSPNRK INF DREKGLVEVIII
6764	14815	A	7473	3	223	DAWVTSTNADKEFEKIQHPLMIKLSSK* VYNMSYIYPLFKIIGIYDKSLVNILNVE KLKAFFLRTGTRE R
6765	14816	A	7474	3	1033	CPLPFSL*YSTCGEKQPQMSWRASAASP GQSAPSSSAVGCWKASCKQYVWGTPSY SYTNRFPRRTPHSPGVWKACISRAG*PA RKNSLICGLAGKTGALKDT\SGKAPVFPL CHRHSDPGGGFHCAELGTGNSPLGRRLL KGLP*PAAVPCPPGAPHL PQR RPAGRPT *FPQAQSSPPQSVWSRSRCTRMPGTGPG RWGPAAGSWPATSLASGCP SWEVCGAT NP*APRLSTALGCCPSPEGKRRPNTPA TRPPCV PAG*APPPGHSRGNGLEKKSSF PASCGR*QSGAGPSRLDFPSSPSRLHSVP PGPFRFTSH PQVQASSVSEKGEKPLRSYD PRR
6766	14817	A	7475	63	389	KNQE QESEETLPNLFYKASITLIPKLD TSS SSSSSFSSSSSSSSP*KPITHRNIPSSSSSS SSHQIQYIGKIIHHDQVGCIP EHLIKFNI AA**EPSKNGDRRNT P
6767	14818	A	7476	3	335	HASGKDRHTDQRNRIKNPETDT* IYSTF* QKC/RLI*WRKDSL VNKWC*SNWAASPM KKIKLDLSSSSSSSSSSSSSV*NVKLL GNNVGGNLQYRGLRVHTVDVKAQHI
6768	14819	A	7477	50	378	LEAWAGLSQVQTPSKFLENPSQS YRLTV PLRKHVRPKKQHEIRRLA*VGNLSDFT G*/HPGCIRGLRPG\HLSRLMDLGLGLMV KSMERDQRLVERAQR LDQELLQALEK
6769	14820	A	7478	62	389	KRDPRKTFITPPVSGERQIRRGPTCKWG FLGLVGRGGPPEGEKSNLLL WNP GPPLG PNIKKGPRLTTPSSSSSNFQREKFHPGGG APP*NPT/ILGRP GGPKNL GWGVP

6770	14821	A	7479	18	373	RGEPPSPAPIGIFKSPKRGFPKPTFFGGF LPKGKKKPGPIPPGFLETKEGGTTPNPF KK/ARVFLVFKPKAGSSSSSSSPNYKPIYL NNTDTKFFNNMLANRI*QCIKEVMQYDR TRG
6771	14822	A	748	40	317	LRVTAQWASHTLPDPVVGNGPSGWKEK DRDSEWGWRDLKSKTWVEVEAEGGLS GDTFQWLPQGSSQRPGLPLVNQGAGVQ ETKGAGPL*SPAPLPPGSPEGAQASGCSP VGAIGMYPLTGPLPPPPQPRSWISGPSTPI LSLCPSPSTRSQGFPPQGLEVCVTPIELLP EVRLKIRECFPSFL
6772	14823	A	7480	2	1288	FFFFFSCYAVNAAGNEGNDTALSFPERS QSRLCGFSQNTLCLLPAPTRSNFPGSCR RQPPGSLPALALAAGDSPGEAGPPGEGS RGIQHTFP*IPRPRRVQGSQSSPSPTSHPO QFINGEGQTS**QNLGLRTQEFECNRLIS RL*VVRFRSLFAFFFLFAFHSPSPFF*GN V*ARLQGGQMESLGAEGLHHRPRQGW RKTQKAPSAYVGKNGNPAP/PWFPPKV FRTGAAKP*GFPNPISPKP*RHSLDLAKG RGPDPARTGTLOSCLAFLWPSRELITPG CHVLIGLGSRLRGALFGG*GTAKRLSHK GRQSGP*N*P*GRIITAPLIPSAASGRVRV GLQRNEPLAQNPTRLRLSSPLLPGGIKVE TVGI**GVGMR/DLGS*NEVSAFIGN*ESR GSGSSNRMVFLPLPNARESPPSRFETVN
6773	14824	A	7481	3	352	QFSIE*KKRKIFPTQA*DKQRLNVQKYKI LLVTRKEGPNKGKRGKPCS*IRKLNIVKTS IFPKLIDSYNKFPPNY/LSASLLELTSCILK LIWE/QNPFFMKMQRARTVKTLSKKKNK VEK
6774	14825	A	7482	2	253	SMKKVERSISILSFHIRKLEN/QLNPK*/R RRREIKIGAEINEIENRK*IEKINETKSYF WKISKPLAKLIKEKTQITNTRNAY
6775	14826	A	7483	2	1114	WSHRDWICPASGFQMLNVGSGVQILRK KLMTYAL*LLQLTVWRDSRLLCREGAP K*SL/SSLPESRRQSSEFEKAKTCQLFINA AVDSPADYHISLAQSALQICLTHPELQN EICCQLIKQTRRRQPQNQPGLQGWQLL ALCVGLFLPHHPFLWLLRLHLKRNADSR TEFGKYAIYCQRCVERTQQNGDREARPS RMEILSTLLRNPHYHSLPFSIPVHFMNGI YQVVGFDASTTVEEFLNTLNQDTGMRK PAQSGFALFTDDPSGRDLEHCLQGNIKV KPSPFQEPSPTNSKEATLYKKSKLCKKFN SGVFNQFNQSNLHDKKKKMQDFVKPIEF LIHNLTYITFHIKERKGVSNNGNDTSLIRII RVDM
6776	14827	A	7484	4	252	GDVEY*SIYSLAPIRHWLRNGPRASTLW LFFFFFFF/ETQSCSVTRLDCNGMISAH CHLRLPGSSDCPAS
6777	14828	A	7485	95	670	FLEGGWAHFFPPPKGSPFKIPKEGFKTP PKRKKIFPSHPPLNLGPPRDLLKGPP/HSS SSSSSPEVINIYCSPFREHGRR*SKVSSW STEVNKPV*DKFPHTPSY/ATPCPLPQGY RTAVFSYSPPK/HMQSLPTFQKACSPYS FSHSDQSPTLVAPFFFPCLMRSSDKLM NDVPAPVFLPSFKGNHACSSR
6778	14829	A	7486	2	338	ENGWCWIATYGRKTGFLSLTTCKS*LK RDLDLGTETMEILEENLGEVLLDIGLGK/ NFMTKTPKADSTEIKINR*DLIKLKS*CTA KKS*T*/SNRQSTEWKKIFGNYASDRS
6779	14830	A	7487	117	334	LYAHKFNNLDEMDQFLQRHNTPKLIQEE /HRLTVIK*IKSIVINLPKQKA*GPDGFSGE MYQLLKEEIIYNVF

6780	14831	A	7488	325	353	CILKDRCR*LYAHKFNNLDEMDQFLQRH NTPKLIQEETDLL/SIK*IKSIVNLPKQKA *GPDGFSGEMYQLLKEIINYNVF*RTDVE G
6781	14832	A	7489	3	458	KSREITTLANNQCMATESVDHELGRCTN SVVKYELMRPSNKAPELLVLCEDHRGRM VKHQCCPGCGYFCTAGNFMECQPESSIS HRFHKDCASQFN/NASYCPHCGE/ESSK AKEVTISLKQTPRPWTPVPGQE*GSSLV GRADTPGSGAR
6782	14833	A	749	2	333	QKRGTLPDF*SDFG*QLNGRHTHFQ/HP VVGNGPGSWGKEKETKGAGPLCYPPSHS KVWGRGATSSVSEGGSQRAGHLP/TSPA AQGLECRNTRLPKVRAVAVRLCYPPL GG
6783	14834	A	7490	49	457	MHNPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDTPISPETP/GCFSRMP PTREPPKTRGSRGHLHTHPGPGPLQGL APRGLKT/RRPPPSVPAPAGTPQGDQED CV*G*VALPGPPGRQEAYWSHP
6784	14835	A	7491	1	816	MDEAQPEALGASDWQTCSTQCLQRC KARSQSDHFKGELGVSSPRVHPQAARRP PPP/PRGTRRPP/PGPAHQGNP*AASPGG RCPPGSPQRLAAP/EGHLHTHPGPGPP/P PAGTPQGDQEDCV*G*VALPGPPGRQE AYWSHP*GA*A*APPSARL*A*VPASEQ* EGTEPLCRSVPGPVRRVLGAPARGGVCT GKAQAAGGPAELPAPTPKEGGPSCSPG LEGV*DEANGSWLPQAGSLPLEG*TE ASQDSDPEIR*PRRTRPSARKPLSCFSRRP MPTREPPKTRGSRGHLHTHPGPGPPQP GPHKAKTKKIVFEDELLSQALLGAKKPI GAIPKGHKPRPHVPDYELKYPPVSSERE RSRYVAVFQDQYGEFLELQHEVGCAQA KLRQLEALLSSLPPQSQKEAQVAARVW REFEMKRMDPGFLDKQARCHYLGKLR HLKTIQIKFDDQGDSEGSVYF
6785	14836	A	7492	27	445	MHNPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDPPISPETLSCFSRRMP PTREPPKTRGSRGHLHTHPGPGPPVSLD REGVPRPGL*AKDLAPAV*GTPVFPTPRF NSRPRFPVAAAGTGAPRPQNORPP
6786	14837	A	7493	1	368	FQONLTLISAHCNLCRLRFK*FSCLSWDDR HVPTCLDNFLYFW*RWGGFYHVDQAGL KLLDSSTPSAS/SFPKCWDYRHEPCTWP* KYSFLTEH*LLPVY*K*IAKPFQKQIVKT FS*GCKNI
6787	14838	A	7494	10	504	EGDKGTPVLRGFSSVSGSWSRMPFLL LTCLFITGTSVSPVALDPCSAYISLNEPW EGTIDHQLDESQGPPLCDNHVNGG\WYH FHGHGRGDAMPYLSFFTRKPLWEPTAPV WLNGSHPL*GDGIVQRQACASFNQCCL WNTTVEVKACPGGYVYRLTKPSV
6788	14839	A	7495	84	250	NRIENPEIKLNTDSQLLPR*FNWER/DSL FNKCWWNWIFKCKTMKLDPPFPDKN
6789	14840	A	7496	63	743	SSCLLAARFPAHASHC*P*SPAHSSKRPI HAQLFPLVASPGPEIPQGFAR*SCCLPVP SPGPVLPSSWVYSPIS*LKTTYFGSAPAQ HLAAFVGLKLPQVKRSRPRSCCPGAFTG PATA*RWLPQAQVLPSPSLRPSCLTVA FPVHVTACYPTALTDQTLPSHWTV*DKL IRLPASPGQSSCLTLASIGPGAESAMVCL GPSHAFLKTLQATIWPDTFCFCGPM
6790	14841	A	7497	340	368	VPTICQVMS*HFHPSSSSSSSSSVINY*/ FGLLLC/QVAHFYNSIDQQMIQSRPMM LQSALAFEQIIVNGLLI

6791	14842	A	7498	2	826	LVKKTCEVPLQAGRLYLDHHQSKPFLKL HSHKTHV*RCPLGIQTTPVTLRR/AFNLR PVLSPQQRVPVEARPRKCETHESFKNSE ILKPHRAKPYACNECGKAFSYCSSLSQH QKSHT\GEKPYECSECGKAFSQESSLIQH QRIHTGEKPYKCSECGKSLSARNANLTK HQANPHREEEALTGCSECEKAFS*LLSVL VQHQRHTGEKPYECSDCGKAFRHSANL TNHQRHTHTGEKPYKCSECGKAFSYCAAF IQHQRHTGEKPYRCAACGKA
6792	14843	A	7499	64	372	KLSFFHRESVNEIKKKTIDWENICNTYE* KPVTYK*FLQIN*KEIN/DQIEKWTKATN RQIAEEEIQIVNKHKRYCSASFRKKQIKT KKRCHFSITGKNYKE
6793	14844	A	75	3	298	
6794	14845	A	750	444	999	HSLTATALTLGSLVFLHSSPCCAAGLWA SDLPSVSLPLTQRRWLPFPKP*KWLGG* QRGPAPLVSCTPAPWFTQRRMKDGSIS HAPSPTLRHPGVGGRSPRPLAWSPVGAI GMYPLTGPLPPPQPRSWISGPSTPILSLC PSPSTRSQGFPPQGLEVCVTPIELLPEVRL KIKECLSLVSVKK
6795	14846	A	7500	2	414	RQGL/DSVTQARVQWSDQ/GSLQPRSPG LERSHLSLLSSW*FEISFRTLQQLVITGN ILGHQKITGTNHR*FMLYSSVFCLFFEMES HSVVQAGVQWHDLSLQPPPLGKRFSC LSLWSSWDYRHPSSCLAYFCIFGST
6796	14847	A	7501	18	73	SYPGAAVSPAPWSPGASPLRSSPELHLRL SSSASSLALAKNALSRA SPSPAAQ/ALPSP SPLLWPLTSSPGRQASPVAPPSASNGT*W GTC*PEAILGLQSAQPPGAPGPPH
6797	14848	A	7502	3	363	KTASPVQVKFCAGVALPNLKRPLREK AQQCI*PLLMAFRNTGRIPCFSCNIPVLP GQKHGTEDYWFVQDLRATROIFKAIYLV IPDAYTLFMTLTSELYW/WSVLNLKDAFI CIPLSPES
6798	14849	A	7503	47	231	NCSSVFCFPGSQRVGSILGKSW*GWVVA TGVWLLNPLKAVGQEEYSLKMEGPRPE VTCRHL
6799	14850	A	7504	1	3099	MGSCSGGERLGTSPKYSMGKWEFVAKE QCGVPCPVQLGTLRNDLSLEAQLHEYVK QGNVVKVKKILKKGSPHSPRVHSLFTE GTLDPOAPDPCLMARETQNQDAPCPAPF MAEEASSPSTGQPSLCSFEINEIYSGCLIL EDDIEPPGAASSLEADGPNQVDELKSM EEELDKMEREACCFGSEDESSKAETAY SFDDWDWQNGSLSSLPESTREAKSNL NNMSTTEYLISSKCVLDLKIMQTIMHEN DDR
6800	14851	A	7505	2	707	LTTH*IIHAGEKPYKCEKCGKAFNQFSNL TKHKITHTEKSYKCEECGKAFIQSSTPS K\QINDGEKPYNCEECGKAFNQASNLY*/ HKIHTGEKPYKCEECGKAFNQSSIFTKH KKIHTGEKPYDCEKYGKGFN*SSVLNTH TIILTAEKLYKPVRCDSASDNISNFSNHK RNHIGES*KCGECNKVFKWLSHLIIGNI HIGKISYK*EQCGKVFN*YTLHRKSFIFE KNCRN
6801	14852	A	7506	1	681	IVTADQLLGMGQWAAIRNQTMLNDEVI EQLWKCCLDWDKIQDDDKLCPCF*QP SDGAQT*NRIPHNCPIFKDAEKSYP*IA RANDLL*NLMAVEQVNPRL/CQVAICPIK GKIPPGDVLTSYIKVCEGVRGTLRTAM VMAQAMVSIRMPGQFPKCFKCSQSGH SKRNCPPWHTDRCSFQHQPKFFQQQAP LSTICPRCQKGNHWVAQCHSKFDIDGNP LRSLP

6802	14853	A	7507	2	342	STVKGPCSMCRTIHHVPHIMGFIFGVQG WHDM/C/KSINVNHSVNRMKKNHMI/S NDAEKAFDKT**SVSIKT/L/NKLEVKGM YLYIHKVAYDRLPARIIADD*RAESFPLRL GKR
6803	14854	A	7508	1	358	VFQSFHKHRNQKVPEPPPLSKT/AKNLFA QLAENIASCLDDSSCYGYKKANIRDQWP *EAKELMPQDNFN*LFPQTDATRSSIW/L LKTSIIKKYHVTHYEKALKTHEKELTCLR HDRVGTC
6804	14855	A	7509	2	681	
6805	14856	A	751	172	431	IGRPTKQGLGQWTAVWERMERTNKSRA WPNACEGPGAVGNYIAWASGLP*MLKT RAARTWVQAGVRESAQGFLNKNRRILE MGLSR
6806	14857	A	7510	670	1466	KKIRPFFQIFDGFISNVLVFAQSGFPCCLP VAPSVTS**LKAADVAGLEVPSPVSDRA FEWLSAFPLADSPYSIHHPRIQVFLKRE GSSRRWVLEPITADSDPAYSSKVLLSSP GLEELYRCCMLFVDDMAEPRETPEHPLK QIKFLLGRKEEEAVLVGGEWSPSLDGLD PQADPAG/SWVRTAIRLCAGPELGIDLS AVTKWWRFAEVSVAAGDPPGGLQTVV VYLPGLDHHAYFGRKWEQPGAKQKA ARGSSPNPGRHKG
6807	14858	A	7511	155	359	VNSSHRDQWNRIGGP/ETNAYIYGQLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6808	14859	A	7512	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVIPIFLQND*TAFFAEMEKPVLFKI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYIY GQLVFDKEAKFI*WRKNSLFNKWCWET GFPYKKE*SVDSYLTAYVKI
6809	14860	A	7513	155	359	VNSSHRDQWNRIGGP/ETNAYIYGQLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6810	14861	A	7514	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVIPIFLQND*TAFFAEMEKPVLFKI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYIY GQLVFDKEAKFI*WRKNSLFNKWCWET GFPYKKE*SVDSYLTAYVKI
6811	14862	A	7515	1	399	NVLIWEDCIAGQAEVLHDSYGIIDWSPK GMFSMNCTSQSCPWPHYVQLV*TERSD SRNDKKYGKSSYYLETWQYSGPQPQMI WPAVGAKHKDLWKLIIAFDKIKIWEKG YTMPSQYNPNYILELVENNTIW
6812	14863	A	7516	10	225	YCNTIIVGDFNTPLSGMDRSSR*KT/NKE TSELNYTVDQQRSLTDIYRTFHPNNLMIHL KELEKQGQTKSNIN
6813	14864	A	7517	37	348	WKMGOPLPGRPQLPQLSKEKILSLNSPNV FSSSPLK***NILPKKKRPDCFTHKFYQTF KEEIIPLKTHQEFEKKEILLKSFYEGSV V*AAKLNADINKKTTH
6814	14865	A	7518	3	353	CRLGGLKGRSREQGAVIREGEDTLG/SET EAGRPAGSLRQQRRGRPWLNVPVPGKH GVPTGEEHWAGEPAGWGGSVSGQAG*A ESRLSSSGHSGQKGGAVMLLAADRRRG QRRRGSG
6815	14866	A	7519	54	284	NHKTPEENIGEKLVDIGL/NNDFLDMTPK AQAMKAKVDRWYGIKL*NLCTSKETIN RI/NNRQPMELKKLMAHNSDKR
6816	14867	A	752	253	428	QASGVSDLQ*KLCAC*AQSQDLRGGGFR EARKTST*QPGFGLLFCLLYSANKLQESV TFKDAIDFSWEEGIAESAQRMTVYGE VMVENYQEPGLGKYLQTRGGLP

6817	14868	A	7520	29	261	NHKTPEENIGELYDIGL/NNDFLDMTPK AQAMKAKVDRWYGIKL*NLCTSKETIN RI/NNRQPMELKKLMANHISDKR
6818	14869	A	7521	5	2088	LSSPSQGRGADSA/PGEFSGTQLPQQGGE LVPQH LAQPHAVPAA/EVGPAW WPAG P*TSPSGRGRPRLCPPAPGPPLPLPAAGPG SHGQPPFM LLDGLPGPPGGSGAS/GLPG SSALP\RPREGVTPGIRGEGLRHTGA/G APSHSHSTCPSRRWQAGCPPTLTAPPPPG WATSPPPESRCRVSGTSR*A*NPGHAA ASSGRWDRPGAAAAGPRPG*AHFA*GS GASGSSPGPEGGRARGT*PCSTEPSPGH* STGPSPCPAGGPRGRLLPLPGPDQGRW APTSGIPLRTG/PKLQTP TSCPGR/KLAEG EAPGLMGVQVRQCEAQHTQRPVWL VV LQEGQDAVCVELEPVRVPAGPRGAADG RGCHRRQA/P*RAGPGRRLCSTAGAA GSFPAPRSGQQG LGLAPGTAAEQAA HRAEPPRCKMPA*/PGPCVSTT CPCVSAS ELGTPGSEPLAGRWREAGSSQAVGLAA\ GGGGC*DQRTPAFGS*GAGKGLRGPPG LVTLSAVGRCASEPGGASGAAGRGRS GSPREPRVSGASRSPCG*AGCRRASSA GCRPRPGR/GSAGEKADTYSCCRAAS\G RPERPSRPGARS*TPVRVYTA/GMVGGQ GLATPGSPCCCP\GPPGGRPRSRPE/SFPR ADPSGYRGLPADRHWSKGP*GPALPGPG RSQAWALLGPQHPRSPAPAGAGRGRAG HRAR
6819	14870	A	7522	45	301	AGHHHWKRGPEAPRHEMCPGSSKNQGL VQGLAGGWGTKGKILKGS/STSPGEPGS GQIHLKKAGTCCGGSSKDRGVRNYSGR LLRR
6820	14871	A	7523	453	704	AGHHHWKRGPEAPRHEMCPGSRSGSEG ATCFARGR*RPPGNSLNVSRMGTRSSYS CRRHSPAFLSWGKGRCHLCNKAHLLAG A
6821	14872	A	7524	3	543	TCCIQAAGTGGSGAPGLASVVGGAAPL WSSF*NSLP*QIRFALVPLPGCRAPGTTPA \PLYSQWFFPGPQRWARSLARGEEGVGV LAPHPQPPTWPGRHGEQSPRRHHGVGH HHQHVMALGADMRRGLAAVAALVAS* AGRVLGWCGRPARRAAQLGQEGAQGT VLALNGLFFPSPRRHGC
6822	14873	A	7525	218	533	AARRAGRPHHPKTRPAQLATSAATAASP RR*GRPWGRGLGPAWRPGRGAALGA QRCGHGVRAVPVARAELGAAGFGGAA GPGAARGQCPALLPGRVEPRAARGVRT TPRPGQLSSQAQPQRRARAAYPRREP* HADDDDLLHGADRSSRFGEVHPVQGH TANPSDGGPVQQHQGHLPHRYHLHLV *HSRPSGPPGATG
6823	14874	A	7526	3	1185	GPRR*GRPWGRGLGPAWRPGRGAALG AQRCGHGVRAVPVARAELGAAGFGGA AGPGAARGQCPALLPGRVEPRAARGVR TTPRPGQLSSQAQPQRRARAAYPRREP *HADDDDLLHGAGGVSVPRGAPARWA AGGVGRGRRRPLLPWGCERSFSSSL*J* HSQICFF*SSLEQCGEWEGVYGDPDSDGG PVQQHQGH/PASQPLPEWKVAEVDGA RSTEDTSWKGAGGSS*EGGPSGPPGPP GAGGLPGHNGLDGQPGPGPKGEKGAN GKRGMGATG*L*RYGWHLGGA FALL *AGHHHWKRGPEAPRHEMCPGSKGSFR ENGHTPSKPAQSSEGQ*LPHSPYQSGRW QKLLMGQGVQRTTHGAREQVAVPRKV DLLDHQDLREPAGCQDTTDWMDSLVLR AQKEKKEQMEKEEKWGLQDNYEDMAG ISEELPLPCYEQAITTGEKAQKHQGTCA CCADAASEKTCCTHDSOLNPOKACNVL

						QGARAASEKTGTHRPSQLNPQKASNYH WNYTAAMDRSYRIIIIIHEHRCRIMMPIG LSWEVLQKCDSVLRPRQWA
6824	14875	C	7527	35	217	MXDSRGRXPGARTYRESPGPXXRMXGR SREIARWPRRRPLAPLLHRLLPSPRPGIC GGAA*
6825	14876	A	7528	2	342	RALPPKDPSSLSSIGSYRVPAPESVEGPL /SPWERKQGERPLSCMS/GLPQLRVGGV RG**EPQGLPQDGDPAHTRCGAEPSSL SLPQDGVQDAAAASFLHTPSQTPCVQRE
6826	14877	A	7529	2	440	PRVPRVRQSSHLWRVCRVPPPTMCL SAHPAPGPDGPTSCESHVPMPTSIQW N*V*RGEITCLKSQEGKS*GHGASCPMT GELKCPHCWG*TGPHQLPG/MSHMFVCI LRGLAGSPARTAARGFLEVAFFKGTIPE RKPLM
6827	14878	A	753	963	1497	NTALSNEEILVMALVVISFLSLTFFQLME GTRLNKLWGFIPRTL*FSE*TLSSIAKAL LTILTPSLKFNREVKNVCHVFWFSY HNNLIKMPFISMFTPLNKMKAFTFICK MTVNINNMHQSTIYAKGEEHLMGCYVN CKLRTACFMAFAVKKKLLAFNMFKIY SCLGENF
6828	14879	A	7530	3	471	RALAAAERPLAPLLHRLLPSPRPGICGGA A*PWERKQGERPFPVSQYLPSAC/GASP PG/PLGTGRGHGADDAAPRRTS*ISEVGSV SVRDPG*IEQGS DGRPLIGHSRWDERGLR GLGFVTGK/PWIKGGAILPVGPSKVVLG YTGRGAGLARSLOGY
6829	14880	A	7531	2	1021	FFFFSCETTIENTLIFFSGEVSNLILPIPVGH K\GL*GGVKEEGCGCVLGLRPAVGSPAG MAQPSAPGVQAGSSILEEGLEVLSQPRA PSRGSQGPVSPPSWKVLQQPVRRTPTPH ASWGKPTHASSFVGGLGAQGGKRMPLG GPGCRPAPGLGAHLYVVCPEFSAPIRGL RSGMVPLKKAATS*DTSGSSPGLGEPASP QLHLFN*SLRGASSVPLSTAS\PEPGLR TQALGRY*ETGKWPFTGLPLPRLSGPST DSGAGTR*EPMEERSEGLG/ERPARDPP GSVPTCGWRGRGSPGTCG/LPGQRPLGR ALRAAKTRPGTCRATDRGVPPGLPRLCR
6830	14881	A	7532	40	403	QWHLAACS NLA SAVSFRIFLYYGERRP SGGARPM L TSPSLTAWIINPLSQQL*YL AAEQQLHRGPRTAPVSGAE*RWTFI/ IARTHCLRRGQGRQPPVSGATGAPSFPL QQPMPRR
6831	14882	C	7533	182	289	
6832	14883	C	7534	50	223	MEQLCTKVRRFKITLLALILXXXXXXXXX XXXXXXXXXXXXXXXXLFSILYEWYPCH LK*
6833	14884	A	7535	3	398	SNLASAVSFRIFLYYGERRPSGGARPLLT SPSPTAWIINPLSQQL*YLAAEQQLHR GPPRTAPVSGAE*RWTFI/IAITHCLRR GQGRQPPVSGATGAPSFPLQQPMPRFT

						PGASSSHQEATKSSTREF
6834	14885	A	7536	287	568	CLRDGSPEPSCGLHCHCPACQ*PTPHPHY KHRPAGESIPGNTPMASARKRPASPTSRL RAPPALILSFLCKMGTLPHASRGCWKE RSEIVLK
6835	14886	A	7537	574	1266	SIPCPSSSFSTWLQSSRNFTEDILASVLISA STQSAQSRSPQNQLCKGGSQAAPPASS HPISSHGWGLCLDDPPAKDIIDFPLVLP PYAVSHQCRLQYGAYSAFCEDMDGDSS LISPWAKYPKQRPQGQVFIRVPKHKMQK GSACPLWPVRGKSLPVKMHNPGLAGR WKSS*STWT/IQS/RSCGLHCHCPACQ*PT PGPHHKHRPAGESIPGTTNFCFEKEACV PYFM
6836	14887	A	7538	1	785	NRQLSCGTALSTTGGIYIGERSVRVWGH RFHCLGNESLLDNCQMTVLGAPPCIHGN TVSVICTGSLTQPLFPCLANVSDPYLSAV PEGSALICLEDKRLRLVDGDSRCAGRVEI YHDFWGTICDDGWDLSDAHVVCQKL GCGVAFNATVSAHFGECSGPIWLDLNL CTGMESHLWQCPSRGWGQHDCRHKED AGVICKFTAFRLYSETETESCAGRIEVF YNGTWGSVGRNITTAIA/GLCCRHLGC GGRNGC*PCIHGNTVSVICTGSLTQPLF PCLANVSDPYLSAVPEGSALICLEDKRLR LVDGDSRCAGRVEIYHDFWGTICDDG WDLSDAHVVCQKLGC VAFNATVSAHF GEGSGPIWLDLNLCTGMESHLWQCPSR GWGQHDCRHKEDAGVICKFTAFRLYS ETETESCAGRIEVFYNGTWGSVGRNITT AIARIVLQATLAVGEEMDANPSPL
6837	14888	A	7539	1	1113	
6838	14889	A	754	1	363	WRESPHSARPRLEPCYDLSSLQPPGLK* CSHISLPSSRDYSCCATMPS*IFCVFFGVE MRFHIVAKAGLKFPGSSNPASGIPKCW DYRCILGQFSSFEAKPRMLIFTLFIICSGH VMMS
6839	14890	A	7540	1	214	VAFFKSAGASVQEQQAQLQEQQVEQRV CCQRLAHPVASAQKEPEAARGPGAP/WA WGRV*QLYGPPEGEGRP
6840	14891	A	7541	3	141	
6841	14892	A	7542	39	210	
6842	14893	A	7543	72	353	QRCPPGGHIYSHKFSPNDSVLPGTVVCEP QPNGPGFDPTVWQWGRPIYPHRSALRL QS*RQSGSP*VCLAGSLCCPWRLGHG LCQAHPGQ
6843	14894	A	7544	5	726	AAILYSGRLSSQPVVVESIHPYTYDTS GTVKIPGAELRVEFDRQCNTERRHDPL TVMDGVNRIVSVRSGREWSWSELRI GDELKWKFISDGSVNGWGRFTVYPIM PAAGPKELLSDRCVLSCPSMDLVTCLLD FRLNLASNRSIVPRLAASLAACAQLSAL AASHRMWALQRLRKLTTTEFGQSININR LLGENDGETRALSFTGSALAALVKGLPE ALQRQFEYEDPIVKA
6844	14895	A	7545	441	1009	GLSHGRNTGPLTTSQASTSPRGNNPRAC VARTRVGVPATELLWMEEMRCVQLFCY SKARSQCSHQ*DV*VFYQACWVSDT WHYLQPLTDSG*YA*KLS/D*VMSGPILA TGPCTSHLA*LLDSEPLERSVSSFCKWDV RLLGKTSLLCCVGLEALSSSEIFNCLLGVF VWNLASCLCGSACCRVFLRDT
6845	14896	A	7546	59	378	

6846	14897	A	7547	31	302	KGRRVLWWGDKNHERSWHKGVMGQR VQDRQKRKLCQLMGKKRSQRA*ILSGTE HLHVHSHLLCQQQVSTGRALHLLP*RI WRARAKNEQ
6847	14898	A	7548	1171	1731	SPRWSAPRSPSGAPSDASCDGLVPMNGR KMACWPVDIPKTDWSPNPWQEKREIVS SEDAVTPSAVTPSAPSASARPFIPVTDDL GAASIIAETMTKTKEDVESQNKAAAGPEP QALDEFTSLLIADDTRVVVDLLKLSVCS RAGDRGRDVL SAVLSGMGTAYPQVAD MELLELCVTEL*NPRSRTP*CFSCRACDEE VSLALECWEPEELPRTQSPALTTQRAQN TMNKLNFHNRVMQDRRSVCIFLPNDESL NII/DKCLVFSWGDGDFGKLGRGGSEGC NIPQNIERLNGQGVCQIECGAQFSLATK SGVVWTVWGKGDYFRLGHGSDVHVRKP QVVEGLRGKKIVHVAVGALHCLAVTDS GQVYAWGDNDHGQQGNGTTTVNRKPT LVQGL*GQKITRVACGSSHSVAWTTVDV ATPSVHEPVLFQTARDPLGASYLGVPD ADSSAASNKISGASNSKPNRPSLAKILLS LDGNLAKQQALSHILTALQIMYATDAV GALMPAAMIAPVECPFSFSGAPSDASVA MG*SP*MGEK\CLLAC*YSENRLSPNPW QEKREIVSSEDAVTPSAVTPSAPSASAR FIPVTDDLGAASIIAETMTKTKEDVESQN KAAGPEPQALDEFTSLLIADDTRVVVDL LKLSVCSRAGDRGRDVL SAVLSGMGTAY YPQVADMLELCVTELEDVATDSQSGR
6848	14899	A	7549	2249	5398	KCHLRAGRCRDVTAIFWLQSSFMQLEE KADLRKSITFYQNQGGRAKDAALGGH HQAGAQQGDEGEAAGAAADGVAAYSN YNNHRKFLATAQNPADPGPGAPAPQ ELGAAGKHGGLPNLRLSFKLALIRDMAI LPFQWNLLISFNAVLGLVFSWGDGDFGK LGRGGSEGCNIPQNIERLNGQGVCQIECG AQFLLALTKSGVVWTVWGKGDYFRLGHR SDVHVRKPQVVEGLRGKKIVHVAVGAQ HCLAVMDS
6849	14900	A	755	1	433	FFKNFYRINRDSYYKAAKFFPVLCISSFH SYCSTLPQAPLPQAWLNLRRSSGVFLLI SIVRADVPTPFQILGLILEAPPSQSYFLPFS SMDGLMLHPNRKVGQLTFSRPGVAHT CNPSTLGGRGGRIA*GQEFETSLGLIS
6850	14901	A	7550	1	609	AAATTTTKLAAARQPLPGGGGESAVGA GAGREVFIYLFATASAKRGGGRKRTPG AQSSGR/AVLPSLGPPGRFLAGVC*GSGG PSPFSSPPPNHSG/Q/PAGAGGEPGNRGPKM GVLAYS LHL*VPCGVS RNTLPAGDGNPV P*SPFLSFTWSP/VP*PWG/ANGPWWADP PPSTHTVP*PSGPPGASGAGPPSWPRPA KGFAPPRGL
6851	14902	B	7551	222	360	XAVLALRPWDVEAEQFLEVSFLLFFFLFS DPRPRDRLRLLERLREPT*
6852	14903	A	7552	1	601	RDTSRNCSTASQCRKASTAPGAEG/DGP QASGRGGAVTTRGSRASSGRGRSVMPL CSRA*DVRARRRRRSQARGSSGKLHLCSG KPLRKRSPCSRVPAPGQSRGRRFTSSPP GFPASPPCITERSRQKARRRTRSSSSSSS SSSSSSSSSSSSSSSDGRKKRGKYKDK RRKKKKKKRKKLKKKGKEKAEHSRQSIIR
6853	14904	A	7553	42	384	LKSAALSHGGAKQAGDPNLHPLPLRRD WAGPETNPRGKGHGHPSGFPLAP*NLPR LGRQRSSTGLGQRGPSGKQPSSHLEGQA VPSGRLAGEESTQDGRGTSQTDAGGWM AGM

6854	14905	A	7554	1	713	AKGAGLEARGAMAHVGSRRKRSRSRSRS RGRGSEKRKKKSRKDTSRNCSASTSQGR KASTAPGAESPSPCITERSKQKARRRTR SSSSSSSSSSSSSSSSSSSSSSSDGRKKR GKYKDKRRKKKKKEEESLKEEGQRKKA EAQ/RGRASSASVVD*DGHAQAY*REM /DEGPKRKS*PKNDTERSTSQATQRTAD GHCQMOSDGYASREGPPHGQPDGRQL AAQPGQVSGCQWEA
6855	14906	A	7555	2	642	HALTTAFNIVLEVLVS AVRQEKEIKSVI GKKEIKLSLFTDDMIVYVEYPKIDKNA/L LEIISNFTRVVGYKVNTQNSVTRVYHQ *AS/EYLKLLKILFALEPPKVEYLGSNLTK HAQDLYEKNCKTLIKEIKELNKWREILC G*KYSVFKMSVLLNFVYRFNAVPIQIPVS CFVGI/EQT/SLKFIWKAKRPRIANSILIN NKVTGLTLPPFKA
6856	14907	A	7556	3	577	TSNECGKTFRHNSVLVIHKTHTGEKPYK CNECGKVFNRAKLARHHRHTGKKH* KYEEDKVYIVNQVLKDRRIHTGEKAY KCKS/CDKNLGRDSHLAQQTRSHTEKP YKCTECGKAFSGQSTLIHHQAIHGIGKLY *CNDYHKVFSNTTTSNHWRIHNERF*K CNKCGKFFRHCSYLAVHR*THAGE
6857	14908	A	7557	286	336	GL**NTTS/PKISTEYISP*AKPPVMRGQD SVLYHSDYDEEWNVRVWANGKSLSCS IAMVDKLIERDGGSEASGGINDGEKERSL TDAIPSLPREDWYEQLYPFILTLKECV
6858	14909	A	7558	2	246	RPLKHTLVTCDKGGL*FEPSFVSG/PPRC A*GDGTPKEVPFIGTATFYHYLPTAYGC MLTST*RKVEETELDDFYDGNRRGR
6859	14910	A	7559	3	348	GWRLVRPLFMGHRQPVISGLQPEQLHL KL*FLCSGVSDCASFPV/QSPEPKVFAK EQLARRKLQAEAGASATLSCEVAQAQT EVTWYKDGKKLSSSSKVCMEATGCTRR LVVQQ
6860	14911	A	756	362	567	PAPTPTWDYRHKSPCLANFLYFY*RQG FHHIGLAGLELLASR*STHLGLPKCWDY RCEQHVQPENIF
6861	14912	A	7560	16	220	HREMKTGNDLKILQKVNKLWHLYTTAY *KRAIKSKLLVHTK/TWVNLKGVVLS *SQSQRVKYWSTRP
6862	14913	A	7561	204	868	KGNQVSHEYSWKFRTLSLS*KQF*VLKR YYRRAVKLVNMSNIAEHPGFMKTGECL RCMFWNNGCIHFAMSKHNLGIFYFKK ALQEE*QCLCTAPVQVALIQVKNFQGRP MCTLLNPIRGYELLNCGISLLHIGRPL AAFECLIEAVHVIHANPRLWLRLAECCI AANKGTSEQETKGLPSKKGIVQSIVGQG YHRKIVLASQSIQNTVYNDGQSSAIP
6863	14914	A	7562	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYEKMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTGRIF ETKFLSQIESDRLALLQVRAILQQLGLNS TCDDSLVKTVCGVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTGVVDGTLY KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSKGGAALITAVGVRLRTEASS
6864	14915	A	7563	77	2246	
6865	14916	A	7564	1	475	HIKNMTFIYFSSFIFCFPPRWSL/DSVAQA GVQWRDLGSLQAPPPGFTPFSCSL/LQS SWDLQAPRHRARLIFYFFLVEMGFITL ARMVIS*PRDPPALASQSAGITGVSHRA RPETYNFCSFIHSSLPVEPEARKMTKNSD IGEIWNLGTCLIV

6866	14917	A	7565	3	362	SAIIV*DINTPIMGGTTRQMINKEIEDVNS AINQEDLLVIYRTLHTAAAEFTFFSSLHE VSSSI\DMMLGH*TSLNKF*SIEI\QN\SDH KGIKFEINNKEI*KIHKYVEISSTLLSKQG
6867	14918	A	7566	188	1055	VIKAAEGDSGSAAWVLDEADPTGGPGLG CRGTTYLLRSGAGGLSD/GGPCGPGTDL ALSPKPPGLHGPPSGPALAG*\DLSRLLPR AHSENWPGAAGGGSHRA*VGS/ADQAD NDTEGNNKDPGRPQAQPSRGS LGPATG RSGWPYGGSP*PTWGGQGPVSTPREGPAGV RIEAKGKS/NVGGTGGMAPSRTCNLLS LPKLSGVV*EAWNPGRADVHIMHAVGLI KTSHEWLDPPADSQAGSCGASGQEPQPA ASGSAAWRRCSQGGGLRLRHQQQEEGP SSQHVGVGCVPCGG
6868	14919	A	7567	2	380	AR*LFSRVNHMVGHKLSLNR*\KIDIIQSI FYDHNSMKLENNNKRKTGKFINLW/RII* IILY*THK*KKK\TREIEKYLEMTENRNK TYRNLWDAKVVPKG\EFIAIGA\SL*KG GKSPIQVS
6869	14920	A	7568	1	370	GTSAPWQYKLDNDSK*\PENGTFEFSILQ VLDNSCHKMGK\WSEVPDVQAFF\SHWS LPSLCSQC/GLIPNLSSFSPFWSFG/PPPQV PSP/TEFFSMDSSDLPPSPAAPRQAEPG PNSHLASAPPPY
6870	14921	A	7569	3	369	HEVKTMKILEENLGEYLLDLVGKDFINR T/PETIS*\NKIYKFNF\IKNFCSLKDILKEI NRIDWEKIVTKHSDKGLVSR\IKKFHDSV /YKMRTQFFPKDKDLGRYFTNKET*\MV ASGHLKMC
6871	14922	A	757	204	389	DMGYDVTRFQGDVDEDLICPICRGVLEE PVQPCQTKVICIILGQV*\GEAHDYHAPYC EHAFC
6872	14923	A	7570	1	2722	MGSAPVPSQACLEALLLIVPWGACGVSQE EEESPAEGSKDEPGEQVELKEEAAPVE DGSQPPPEPKGDATPEGEKATEKENG KSEAQKPSEKAEAGPEGVAPAPEGEKKQ KPARKRRMVEEIGVELVLDLPDPEDK LAQSVQKLQDLTRDLEKQEREKAANSL EAFIFETQDKLYQPEYQEVSTEEQREEIS GKLSAASTWLEDEGVGATTVMLEKLA ELRKLCQGLFFRVEERKKWPERLSALDN LLNHSSMFLKGARLIPMDQIFTEVEMT TLEKVINETWAWKNATLAEQAKLPATE KPVLLSKDIEAKMMALDREVQYLLNKA KFTKPRPRPKDKNGTAEPLNASANRA FPSPLTPWADQNVLSTVSPYKILGKGET MVVPRVFGRMVGKSREAVAQAMVLEM FREEDYYNDVLDQMGASILGVEGPRR HPDEPPEDEVFELFPMFMGGLSAHNRA VLAQLGCP\IKNLDALENAQAIKKLGLKL GRQVLPPSELLDHLFFHYEQNRFSAE VLSSLRQLNLAGVRMTPVKCTVVA AVL GSGRHALDEVNLASCQLDPAGLRTLLPV FLRARKLGLQNSLGPEACKDLRDLLH DQCQITTLRLSNNPLTAAGVAVLMEGLA GNTSVTHLSLLHTGLGDEGLELLAAQLD RNRQLQELNVAYNGAGDTAALALARAA REHPSLELLHEVQRNLNSWDRARVQRH LE/HP/SCGIWKIAGVPLILGAPSCCEW RARAPSKSPLRRCPNSHPEPASVM*\PA*T NLSIPWCCVASSLLRRCGSQSL*\PSS/HPA AVSMETYHVTLTPPTQRGEEQVELSTIE ELIKVP*\SAPSQ*\WSTGLALPQEA WY PVRSH*\CPRLSQSPDLTGYSYGSFGHL TWEMSWKAPRNCAY
6873	14924	A	7571	2	394	

6874	14925	A	7572	1776	3257	TNLSIPWCCVASSLLRRCGSQSL*PSSPPL PSPWRPTTSL*HCHQHREVKNKWSSPQL RN*SRMP*SAPSQP*WSTSGLALPQEA YP/REKPPMMPQAQPAIPRPNRLFLRQLR ASH/CGK/WSWKAPRNCAV*LNSTTPCS RSGPSPRGLDPRWSGQKTWHLLGSQA* ATTPGPMEL*/ELFNPACGRRVQTVVL YGTVGTKSTLVRKMVLWDWCYGRLPFAF ELLIPFSSSLCQLVAQRYTPLKEVLPLMA AAGSHLLFVLHGLEHLNLDLRLAGTGLC SDPEEPQEPAAIIVNLLRKYMLPQASILV TTRPSAIGRIPSKYVGRYGEICGFSDTNL QKLYFQLRLNQPYCGYAVGGSGVSATP AQRDHLVQMLSRNLEGHHQIAAACFLPS YCWLVCATLHFLHAPTAPGQTLTSIYTS FLRLNFSGETLDSTDPSNLMLMAYAAART MGKLAYEGVSSRKTYFSEEDVCGCLGG WASGRRRSFSWLHIFRSGWP
6875	14926	A	7573	201	1436	PCDPREYP**ATSPTRRSWPWSISHPRPG S/HPLALSQLFNPACGRRVQTVVLYGT VGTGKSTLVRKMVLWDWCYGRLPFAFELLI PFSCEDVSSVGRAPASMCQLVAQRYTPL KEVLPLMAAAGSHLLFVLHGLEHLNLDL RLAGTGLCSDPEEPQEPAAIIVNLLRKYM LPQASILVTTRPSAIGRIPSKYVGRYGEIC GFSDTNLQKLYFQLRLNQPYCGYAVGG SRVSATPAQRDHLVQMLSRNLEGHHQIA AACFLPSYCWLVCATLHFLHAPTAPGQT LTSIYTSFLRLNFSGETLDSTDPSNLMLM AYAARTMGKLAYEGVSSRKTYFSEEDV CGCLEAGIRTEEEFQLLHIFRRDALRFFL APCVEPGRAGTFVFHRRARHAGIPRCPLH CAGFAQDDPAKGGQSG
6876	14927	A	7574	1	376	PFLPPYMKINSR*SKDINVNFKSGSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSPL*KKNTPIKKWVKDMDRPRA
6877	14928	A	7575	288	468	KAEAGGWLEFRSSRPAPWRREAGAGQSP GPG\GRGCSEL*LCHCAPAWTTE*DLASK KKKQK
6878	14929	A	7576	1	378	YRKP/TADNIINGERLDAFPLRPGTRQG/T PFLLLLFNIVPEVLVRAIKQDLAETIIVI*IR KEEGKLSLCTDDMIFYVENPKEFIKILLE QISS\QVAEYKINIQKSVVFLYTWNEQSK YEIKIISRA
6879	14930	A	7577	840	1093	QHKNLVL*SGRR*LLSQEES/GIFFTLVI TTFCWER*NRRILSQI*RMIGARIHFQEP VIPAPWEAKAGGSLEIRSSRPAPWPTW
6880	14931	A	7578	254	701	KTGKEGPVRWLMFVILAPWEAKAGGSL EVRSSRPAPWT**NPIS/KNSKNIKISLA WWCTPVVLATEEAET*ESLEPGGRGCSE PRSCHSTPAWVIGAPSQKKKKKEKQARR SWLAGHSGHLHYASYAGRCGRVGGLE PRNSRAAWAT
6881	14932	A	7579	12	154	CLCMSTCMCACVCSVCMHICVDCVC /CVCVCACAYI*LRVCVLVCVFLYVCFV SVIVCVCVCVRIYLAFFHKSLLK
6882	14933	A	758	381	1335	DMGYDVTRVQGDVD*DLICPICSGVLEE PVQAPHCEHAFCNACITQWFSQQQTCPV D\RSVVTVAHLRPVPRIMRNMLSKLQIA CDNAVFGCSAVVRLDNLMHLSDCHEHN PKRPVTCEQCGGLEMPKDELPHNHCIKH LRSVVQQQQTIAELEKTSAEHKKQLAE QKRDIQLLKAYMRAIRSVNPNLQNLLEETI EYNEILEWVNSLQPARVTRWGGMISTPD AVLQAVIKRSLVESGCPASIVNELIENAH ERSWPQGLATLETRQMNRYYENYVAK RIPGKQAVVVMACENQHMGGDMVQEP

						GLVMIFAHGVEEI
6883	14934	A	7580	139	350	AIMAPNFPS*VKT*SQEDGQTPNRIKLLK STSRHII/AIEN*/LAK*NILKAVREKWLT CRRTVISMTDMF
6884	14935	A	7581	17	245	GG*GCSCSEL*SCHCSPA WVT*SKTLTQK KNPQF*QVV*NI*IPCLLIDFSEFGLFLPKS YCYQCKVTLQCSKSL
6885	14936	C	7582	82	300	MLGIFEGQLQINQLVETGLKRWLRRLNSF LKRFCYLLKSLSRSSRTTTTAFVCDGR WIMQIPGSVLPFPQCW*
6886	14937	A	7583	1	772	KENLITFPRIQPIKDDFRYRGAIARKRI RLGRKYVISHKEEVPLCIHWDISKQASLS DSNVEALKKLA AKRGWEVTSTVEKIKIY TLEEHDVLSVWVEKHV/VEVQHI*LIRLL SDFTKRPLWDPHFVSL*SHRLG*VKDDQ LY/HITCPILNDDKPKDLVVLRIHEGKPLK DGNTYHS/VAVKSILPSVPPSPQYIRSEII CAGFLIHAI*QQFMHSYLTITCLLGILPY FGWEILGGLGPKSIGRKQQLVYSS
6887	14938	A	7584	3	307	RFTEHHRTLTGEKPYECKECKRLSSNT ALTQHQRHTGENPFECCK*GKAFNQKIT LIQHQRVHTGEKPYECKASGK/AFSWCG RFILHQLHTQKTPVQA
6888	14939	A	7585	1	374	TGVTPAATQASWTPPIDGPTTQEKLS*A NTAPGTEGEQQVHGEKKEDPAVPSAPP* YEESTSGEGRKA WAFPPAPTGEFHPNW AYVDPNSNSRYDNGVPTGDHEL*TTFS WDDQKVRVRFVR
6889	14940	A	7586	1	512	
6890	14941	A	7587	1	399	FFFFNYITRYNKHRYRYKMSKKRCHKIF QMIDMLNAASCAALGRHSRWVLGGAH PTPP/GSAQAPAPWSHAMGARTLPPRPFR S\FGHSSATPKVSPSAAMPTEAQR/LPGC GPGSDFAGHPQC*PPQVQIPTSC
6891	14942	A	7588	49	430	KWWKVDCVGDMLECASIGRSEAFKTSS FQFSLATSEVCGHSSATPKVSPSAAMPTE AQ/QTPPGCGPGS\ALLGIRSADHPKCRSP LRVPPPRSTSKVLAPFLASSDHEHTCS SQVRLPAAVRGAST
6892	14943	A	7589	467	1518	LANCRCVPGGHWMQEMVRELWMWNV EEEEHEVGICTWGGQHCGCPAKSLPGPH PGGVSAPQSASQLMVKLLVWQKSVHKL RKVSATSSIAVYPCPGQSSGGAESPAPGP GLAGWSHLCGAALAEVQAAPVSQAAVS DASLGPEWSQEGCRPGLTSGQHGGRDG R*RGSRQGDV\QSPSPGIPASSAAL*VGL VLVKWRPVHKAYDPVPEASPLSANFRN PGPAEAPGPMGKTKGRGSAGGA\GAGS AGLAPPPRSSQGAAGIGQ*PGLPEEAVHP CKGSCPASSLSAGTPRAPPHPCLGPRR QGPCSHGVTPGCRSLG*AGGVG*APPR QREWRPRAAQEA AFNMSII
6893	14944	A	759	1	1236	
6894	14945	A	7590	296	423	MVI*KL/PYKKSQGLGTFTDEFYQILKEE LISILLTLFQKIQKE*VTYKKSQGLGTFTD EFYQILKEELISILLTLFQKIQKE
6895	14946	A	7591	3	167	VYTKILRADRDMLTGYPCSTGLLTADD ***DNTLEV/IALRRGPFFYLEGLDLSPK

6896	14947	A	7592	19	406	PLQELGGQSLSLHYVGGRAFPPAPGHP PVQSLQRPCVPTQQLLTPEFWCPAL/RQQ Q*GHRQGTGAPVPTPGPPLKGQWQQGPP QKEWQMRPKAFGHHHPGGLCQSLGGAPR RWNRDTYQAGPRQGCCALM
6897	14948	A	7593	2	3532	
6898	14949	A	7594	3	300	KGPWKQENVEAEASMVIAVPEPFGGAIH GQESITYHNGDKYLAIAPIIKQSTIVCHN RVDP*WPQDTLLGDMEGRLFTALQKNP TEKKIPQALQQAN
6899	14950	B	7595	1	819	MARGSAGLVLRGRRLHDWQLGSGHSAP GMLGQVALAGRTELAVPSLDTPGGGEQ RASDLRTLSSSHESDHTVRAAHSPLPAE ALTRSLPCLQNVAVHRLYIKCQLDFGGD SIAVGTPWYPMVWIPVWVWIPVWVWIPV WMEHTVLIHLPGVGHVGSLSAPVNN VCGNVAEPPALCGTKASKPPLTPPIRS KAKFLGGSVCLGRHNKLSQTRWLKQQT FISHDPGGWKSNIKLRPAQDLLMSVCM NCNTHGSEMDVISHLIKIRLKPK*
6900	14951	A	7596	2	3235	SPASPAGRSAAHGSASPSGSPHPSWCTV GRSSCWSSPSP*ASSGSGTPPTQGRCSL G*MRRRPAGGAQAFQLKGKKWRRFGG W*PRWEAGCFQGEW*GATDSRTASNQL GPPHLQHLHINPPARQPPAFNRVVKQAP WRPQARAGAPGKPDQDAHQRLVQNG HLGAQTQEEVAVTLGWVPLVGLRL LCGTAPCAGSARSPRGELADGGDSVE PPDGIPLDG/EQSGSGMSGALPGSSFLCP RRCRP
6901	14952	A	7597	2	1065	HMILCVENSKDSTKKNLLDLINEFSKVA GYRINIQKSMALFTNNNLAEKSRKQCPF /TDNIHLRIHLTKMKVHQYSLHTENH KTLMKYIEEDTNK*NDIPCS*IGRINVVK VSILPKAIYRFNAIPIKISSAFFTEIEKIIQF LWIHKRSQITKAILRKNPGGILPNLNL YKTRVIKTIQYWHKRYTGO/WK*PEINPN MYG**IFDKSTKTK\WEKGSLFNK\WC WDF\TCRMLKGPYITPYTKINPKWIKD LNVRT*SHKSRKENIRGKAPWTLGFGQC FLGYHTKTSYKSNK*MKLYQSKLL HRTKTINKMKRQCTDKEKIFANHISGKV LIFRI*EELIQLNS
6902	14953	A	7598	3	333	TLLPEIQAYTQEQWLGSPPEATALAERL QQESAGPGLQMNGGLVLGAWVCLPP/SS RPPAEPSTGAQSWVGG*EGPGGCGKVM VTGGSLVVLAWTAESEISSHTCVLRIVS
6903	14954	A	7599	252	684	HLFRQLFLEVLSLQSPCLVAHSASRWC TAPVTADAPSLWRALALWLWLAHQGP GTGWPVLSLRRRSASRLAASPSNPSPSR NIH*SPQRPVCSRGPSPATCPLGLPRTSP GATRPGPVSPSPRSGIAAAPGLAPAST PP
6904	14955	A	76	189	442	KTMRSIRSFANDDRHVMVKHSTIYPSPE ELEAVQNMVSTVECALKHVSDDLDET NKGTKTEGETEVKKDEAGENYSKDN*G R TL
6905	14956	A	760	55	792	GRAGACSLIDTAMSIEISSDVIRLIMQYL KENSLHRLATLQEETTSLNTVDSIESF VA\ELKSGHWDTVLQAIQSLKLPDKTLID LYEQVVLELIELR/ENLGAARSLFETRPDP MIK\KQTQPERYIHLENLARSYFDPRE AYPDGSSKEKRRAAIAQALAGEVSVP SRLMALLGQALKWQQHQGLLPGMTID LFRGKAAVKDVEEEKFPTQLSRHIKFGQ KSHVECAPRAEFVQRRSN

6906	14957	A	7600	156	888	FRSSVSPGSGPPFSVSVTGSGCPS**HSGR PGVLVLKLPQGS*ASLPPAFPGGSDVAA GRGLSSAADCFSLTGLGLTATPVFLTSN LKLLQESVPK*LNSASS/PGVPRP*LQMH RLCGGPRSLAVVGTTRPGARNWLASAFS/ VGGGQLLGLQHPLQKIPPSRNIH*SPQRP VCWKAGRRRTKPRVDLQALETCPLGLP RTSPGATRPGVSPSPSRSGIAAAPGLA PASTPPLSPGFTPLPP
6907	14958	A	7601	231	457	QWLSLLPLGLGEDTKSLRANTSNELEHS QATIWEEGGPTSSSLWRPFNFGSPTNRN PKLMPAVQPPHPSG*TPSVTLWHISWR WSP*GQSKASLPLPLWNSTCYPQTNKE TKTQSALSTPSTNCNQKERRPVCLPWV PPTSCSSTDREPPAWAHSTDPSCDGTAK VPSSAGSKLGRKHHPRAAVGS LGASSHN LKAMGEEPTL/VTALRGSKVTTV/SETTR PRKKLSTDQYT*APPTGSHPKASTPKIRC CVSPFSRCYEEIPETG*LIKERGLIDSQFH MAGEPSGNLQPWRKAKEKQAPSSQSGR TE*VPAGEMLDTYKTIRSHETHLSREQH GENHPYDPITSTWSHP*HVGIMGITIQGEI WVGTQSQTISLTYPSP*NQTKEVSNK*RP PYGRREDQPLPPCGGLSTSLVPQQTGTPS SCQQCSRPIVVAEHPQ
6908	14959	A	7602	2	289	LACYSPFFGGP/PSSPPPRAGGSNPPGPPG LTPFPKK/AKKLL/RPSSSPPLFPPLGRVG PGDSFYPPGEGFP*PRVPIT*NWGPFPPPR GTKKKLPF
6909	14960	A	7603	3	805	DRVSLLLPRLECNGAISPHCNFRPPGSSH SLASASRVAGITGVCHHA*LIFVFLVEME FHHAGQAGLELLTSGDPSPPWSPKV/YRI TRHGATATWPYIFKNFYPTRPS*NSLSLK RTS*IQMPAL*MERLQFVCPS/LAEDLTK F*EKQDSKFTSQNREN*AFSRRS*GMLEK D*KWTTSDIV*VFVLFKSHVEMLSPVLE VGSSRRFLGHGGRSLMNGWVLSLW**V SSYISSCESWF*KESSVFLTFLLLPFWPC DMPAPPLRLPP
6910	14961	A	7604	75	484	EIQLVLSLKTSLNKFKEIHSILSDHSGI KLEINSKGLQNHANTWKLNNLLNEH WVKNKIKMEIKTF/FELNDNNGTAYQNL WD TAKAVLRGKFTALNAYIKKYERAQT DNL RSHLKELEKQOTKPKSSRRKKK
6911	14962	A	7605	3	1105	
6912	14963	A	7606	802	1204	VLEVLTRAVRQEKEIKGIQIGKEEVKLLL FADDMIMYLENPKDSSKLLGLMNEFSR VSGYKINVHKSVALLYTNSDQAENQIKN SAPFTVV/SKKK*LND*IKYLGIHLTKEVK DLYKENYKTLKESIDDISK
6913	14964	A	7607	3	419	RVECVVGLYDRSAAASNTITQVVVTHI QALSHEQ/SAAYTSFSNKHESFSRIHLLL GHKLGLNHF*NVGIM/PN/IFSNPNRITLEI NTRSKTEKSTNLWKLNNLTLSQQSREE IPREKENT*NENENAAAQHLQDAAKAA
6914	14965	A	7608	1	341	RMGTCVNPRSLKGFGRPGGKKKPQSSP LKS/SPKMALMGGNPGGAPFFRFLFFNF RFGPKKSSSPAPIFFFLKKGL*INFGPPREP GGFNQKPQFPSAPGFEPWNPQGP KP
6915	14966	A	7609	1	409	
6916	14967	A	761	85	379	KKPKTKKRTGPVRQNVWRGRLSPGRA PAEGPQGGSTESPLLVRCLILGLREPG VPPAAYGRFLRDYMNISIQKLEKQRPQ* GLPSLTGAAELIKH

6917	14968	A	7610	3	644	GDQRDLISNNEQLPMLG/ERPGAPESQRP AQPSRDTRPPLPSPKIASPMCSLKKG*KA ITPMPLLPQSPKTPKP/VSKMRMATPLLM QALPM/DALPQGPQMKNATKY/GNMTED HVMHLL/TVLTKC/QEEVSHIPAVHPGSF RP/KCDENGNYLPLQCYGS/TGYCWCVF PNGTEVPNT/KSRGHHNCSAPSPSPISHLY LIP*DPGAWLFRHPGQDKPSRNSR
6918	14969	A	7611	1	1032	MHRRRSRSCREDQKPVMDQDQDLISNN EQLPMLGRRPGAPESKCSRGALYTGFSL VTLLLAGQATTAYFLYQQQGRLDKLT TSQNLQLENLRMKLPQAS\KPVSKMRM ATPLLMQALPMGALPQGPQMKNATKYG NMTEHDVHMLLQNA\PLKVYPPLKGSF PENLRHLAKNTMETID\WKVFE\SWMHHA WL\LFEMSQPLPCSKSPDAPPKVLTKC QEEVSHIPAVHPGSF/RGPKCGRGTGNY LAIPVAYWGASATC\WCCLFPNG/TREVP NTRSRGHHN\CESLGTWKDPSFLGLGV LTK\QDLGPVPIVRASRGGLQHPASPTQL QLSCSLQPPAPPPSPTL
6919	14970	A	7612	59	321	LSGSPLVTATSQVPGLSRGKTGGPDAL/ SALPAPTSPISPPPSRSLRRPRAPSGCP WGCPGSLQQAPGPLHWQDYRPGVRVRL PG
6920	14971	A	7613	1	464	DEEDGENAHPYRNSDPVIGTHTEKVSILK ASDSMDSLYSGQSSSGITSCDGTSNRD SFRLDDDDGPYSGPYCDQATLHTDFTPSP YDTSLSKI*KGDIIDICKTPMRMTGTMV NNKVGNFQFIYVDVISDEEAAPMTIKAN RRSISILSKTLQ
6921	14972	A	7614	1	2119	LSLFLDLNENDFLSNNIHTYQGKTLQGTS YQAIKSGSDPVESMGTLLKRLQKLVWTK KARVQNLDEVKPTLINLQDEDDTLISCL KLTKSREKKVNSVSTRKEEMEIRLDTL SASLGRSSTLNNCNLEDKLAWEYEAY MWHHWKPPENPLWTCLDFQIAQVGPW DHCSSCIRHTRLKSSCSMDLLHSWVTL CRQESSNITCWTKLREKRGDLFCILFVCF IDRKTPRKFSDDQALEILKIGRKQKVHSL GVVRIQNAQEKAIQCFREGETSKTKEYE SVIKFYPKQRSSSFNFRNRNSLSKPD DSTEAEHGDPTNGSGEQSKTSNKEAVW GKKMRAISWTMRKKWGKKYIKALSEE KDEEDGENAHPYRNSDPVIGTHTEKVSIL KASDSMDSLYSGQSSSGITSCDGTSNR DSFRLDDDDGPYSGPFCGRARVHTDFTSP PYDTSLSKIKVIGEQQCLVTWKGDIIIC KTPMGMWTGMLNNKVGNFKFIYVDVIS EEEEAPKKIKANRRSNSKSKTLQEFLE RIHLQEYTSLLLNGYETLEDLKDIKESH LIELNIENPDDRRRLLSAAENFLEEEIIE QENEPEPLSLSSDISLNKSQLDDCPRDSG CYISSGNSDNGKEDLESENLSMMLLTDP LQLSPQLPQRGAGNINRRKTGFSLGHGK LNKEQRKDKKRLIQGWEVAEELGPSAAF G
6922	14973	A	7615	3	452	
6923	14974	A	7616	1	475	PDSSGPHRLRENPPMVAVSCPTKTNVKG PPGGKVGAAHA\AQYG\SEALGRIFLSFT TKTYFPHFDL\SHG\SAQV*GATGKKVAD ALTNAVAHVDDMPNVAVRP*SDLHAHK LRVDPVNFKLLSH\CLLG*PWPAPHLRPS FTPCGGTPSLEQSSWASC
6924	14975	A	7617	26	461	WESCGPHQRTG*AGSSRCGWRRRAAGP GCHQPRAGVPGRTRCAGRSPAADAAGR CWLGGPPPPGCGPRCLR*CAGHPAGSA RVWSVVAGASTGLGRLWGRRWSPSCH RCQSPGCQAGRRGTARLSWPLSRRTSCR

					IPAARVYPR
6925	14976	A	7618	3	419 LLDPSDGKSCGPTSKDCRRRIQYSVEA LPRPALPHTTRGSGRKEARGEQSGAGA PADPDKLEAAVAVGEDVQQAPGCHQPR AGVPGRTCRAGRSPATRGTRDGT/QGR AGPATVPIPPGPWGGPTCRRCTLLARR S
6926	14977	A	7619	2	227 AGVFCDAGLTFTSSSGQTAQRAELLCP QPAALRRRSEPFVHLLDIS\GEYLLGTFY YCVENLRDGPCVVADAV
6927	14978	A	762	209	393 WAVYCTSFMLS*CYKI*CKPALSLLGI*T TEVKTYVYTNRCEMSTSALLIVAKN*K HSCC
6928	14979	A	7620	11	394 SEFCDWVADLDVQKYEQPS/HEALTS MGSTEARVDYMGSSILMGIFSNADLKLQDE WKVNL\YNTLDSSITDKSEIFVHGD LKWDFQVMISRSTTPDLIKIGMKLQEFF TQQFDTSTRALSTWGPVPYL
6929	14980	A	7621	3	185 FFFFER/CPTLAQARVLWCLHSSPQPS PW/VSSNPAS/ASQAAGTAGMCHRAWLL KTEVGDL
6930	14981	A	7622	1543	1744 FVKSKALAFLSFFFFFLKQSLSVTQAG VQWPVDSLQPLPPRFKRFSCSLPSSWD YRCVPQCPAN
6931	14982	A	7623	1	259 SENQEQUEVITVRVYDPRVQNEGS WNSYVD\YKIFLHTNSKAFTAKTSCV RRRYREFVWLRKQLQRYAGLVPVSEL PGMPTLYGLY
6932	14983	A	7624	3	265 CCHPRLACSG\MIL\AYCQSR LPGSKRFPCLSLPSSWDYKQPC HHTRILVFLVET\GFHHVGTGLE/ MLRNSGDPPTLASQKCWDYKA
6933	14984	A	7625	2	375 RAALTPSTYKGAPSPK/GAPHST GVTSA SPKEAPTPPAVTPPSPEKGP ATPAPKGTPTSPVTPSSLKDSPTSPAS VTCKMGATVPQASKGLPAKKGPTAL KEVLVAPAPESTPIITAPTRKGPQ
6934	14985	A	7626	2	425 IFPPPKRGFFSKKKGVVFNPPASS SRFFARPPPGVGPPPVSSSSSPFYFY ASSSSYSSSNFPS/HSSSSSSSSSPRQ QHPLYPHCLRGLWAERAW/PPGTPLY HYKTQRKQGT SASPGRGTTCHTPQSP PLPGHHRCPW
6935	14986	A	7627	3	253
6936	14987	A	7628	48	557 AGLGKARLAPGTPLYHYKTQRKQGT SASPGRGTTVTQRGHYQNA PGRTLQPPPCGQQTSGH*GPGWP YESQRLWKTPQRS*Q*FLHPPPR/ HCHTPACGAASASPCVGRY CPRCSCAPARSASLAALTRETAP LLPSPSWAPGDPTLEGWPGNGS PLPPRGM*PHLYPHCRLGAKRA WPRGHHICITIKPRGNKEQVQVR GEGPLSRKEVTVIKTLVVHF SHHLAASKPAAIEGLDGLMSLRG YGLKHKDLDNDFCILLALPHSCL RSSFCITMCRALLPEMLMCSCSL SISGRSDSGNSSSSSFLGSR RPHVGGGLAREWFTTPT EGDVTGIEDGL

6937	14988	B	7629	122	1028	MENGQSTAAKLGPLPLTPEQQEALQKA KKYAMEQSIKSVLVKQTIHQQQQLTNL QMAAVTMGFGDPLSPLQSMQAQRQGA LAIMCRVYVGSIIYELGEDTIRQAFAPFG PIKSIDMSWDSVTMKHKGFAPVEYEVPE AAQLALEQMNSVMLGGRNIKVGRPSNI GQAQPIIDQLAEERAFNRIVVASVHQD LSDDDIKSVFEAFGKIKSCTLARDPTTGK HKGYGFIEYEKAQSSQDAVSSMNLFDLG GQYLRVGKAVTPPMPLLTPTPGGLPPA AAVAAAAATAKITAQEAVAGAAVLX*
6938	14989	A	763	348	638	VQGKPWGMGRAVCPAPGPVRLEERPVC GTPCLCLHPARMTPAWGSIHCLPSHGGC PCLPVNAPSWLGQPSWARALLQ*WVV LGAEGHLPTLRRTTVG
6939	14990	A	7630	3	407	KSMTEAEQQQLIDHFLFDKPVSPLLLA SGMARDWPDARGI/WIETLFKSKDYEFM WNPGLGYILTCPSNLGTGLRAGVHIKHE KFSEVLKRLRLQKRGTGGVDTAAVGGV FDVSNADRLGFSEVELVQMVVDGVN
6940	14991	A	7631	1	170	
6941	14992	A	7632	1	411	SYEVFKELFDPIISDRHGGYKPTDKHKTD LN\PNLKGGDDLDPNYVLSSRVRTGRSIK GYTLPPHCSRGERRAVEKLSVEALNSLT GEFGKGYYPKSMTEKEQQQLIDHFLF DKPVSPLLLASGMARDWPDARGI
6942	14993	A	7633	2	1250	LPTDGAPPPPPGRPPAAAMPFSNSHNAL KLRFP AEDEFDLSAHNNHMAKVLTPEL YAE LRAKSTPSGFTLDDVIQTGVDPNGH PYIMTVGCVAGDEESYEVFKDLFDPIIED RDGGYKPSDEHKTDLDPDNLQGGDDLD PNYVLSSRVRTGRSIRGFCLPPHCSRGE GRAIEKLAVEALSSLDGDLAGRYAL KSMTEAEQQQLIDHFLFDKPVSPLLLG LGHGRRNWPARGIWHNDNKTFVLVWV NEEDHLRVISMQKGGNMKEVFTRFCT GLTQIETLFKSKDYEFMWNPFHWATSL P\CHCNLG\TGLRA\GLH\KLPNLGQGM KFSEVLKPAEELSKSRPPGGVEHGLR WAGVFDVFQTLNRPGPSQSVELVQMV VDGVKLL\IEMEQRLEQQQAIDDLHAW PKK
6943	14994	A	7634	1	175	EQLPYFVTFISMPATT/EGRRGFSLSVESA CSNYATTVQVKVVRNMHISPRALGTLH HN
6944	14995	A	7635	1	83	
6945	14996	A	7636	61	2028	
6946	14997	A	7638	517	1038	NKRIYNCMMISSRRVISLSPIVLLQIFDCP RLKFSEIPQRLTALLPPDPVINHVASEV APACFSDQGMISFLPSLPLPLPSLPP CWICPSGALGPVWGHGHEGLDFPGSV DPSDQKKTACYDIDVEVEEPLKGQMSSF LLSTANQQEISALDSKVGPKPRAVGH
6947	14998	A	7639	154	1594	LSRCRTLPSMTPGLQHPPTVVQRPMP GARMPHQGRPWAPRAPRTWAAPPCDPA WPPRDGARPQASSAPARQSQAQSQGP EPTAPARSRAKRRKMADKILPQRIRELV PESQAYMDLLAFERKLDQTIMRKGVDIQ EALKRPMKQKRKLRLYISNTFNPAKSDA EDSDGSIASWELRVEGKLLDDPSKQKRK FSSFFKSLVIELDKDLYGPDNHLVEVHR TPTTQETDGFQVKRPGDLSVRCVLLLM LDYQPPQFKLDPRLARLLGLHTQSRSAIV QALWQYVKTNRLQDSHDKE\YTMGDK YFPQNFDC\PRLKFT*IPQRTAVLMP DPVINHVIS\VDPSD\QKKTACYDIDVEV EPIK/GGQMSSFLSTA\NNQQEISALDS KIHETIESIN\QLKIQRDF\MLSFLRRPHKL CARTWLRSQEPGTSR*LTDVAGNPEER

						RA\EFYHQ\PWSQEAVSRFY\CKIQASA GKEAW
6948	14999	A	764	746	1280	ISHMELQFGAIFAEILFRGPFHHLHNINFT WASCCPHASQGRQRGSSWNEYHSFRE FNQEKEKIWRAGESAPLPLAGAAACPW RGGASNPICVTGASAAGGRAGGGSGEET GSAPGAACSST*ESYEAFSGFSSSPGNSV *TFSTSSTYTASPPTSPSPSVSPSPPCYYYS SSSSL
6949	15000	A	7640	256	426	HPICPQTTKAFLPRMLELQNGHIVCLNSV LALSAIPGANDYCTSEADFGFMESLT
6950	15001	A	7641	1	985	RIARPGEFRPLPGSAARRMAWKRLGALV MFPLQMIYLVVKAAGVLVPAKLRDLS RENVLITGGGRGIGRQLAREFAERGARKI VL\WGRTEKCLKETTEEIRQMGTCHYF ICDVGNRD\EVYQTAKAAREKVGDIILV K\NAAVV/HMGKSLMD\SDDDAFLKAQ\ NINTLG\QFWNHQGPFGKLCWKQQNGP H/LVCLQLPLLGVLA/LPGAIDY\CTSKA SAFAFMESLDPG/VLAGTCPGV\SATTVL ALSTTSTEMFQGH*EFRF\PNLFPPLK\PET VARK/TQVEAVQLNQALLLPWTMHAL VILKSILPQAALIEIHKILKETYNLE
6951	15002	A	7642	1	376	KQAASNQLDSLMLGLG/DSHPVEERGILC EFCGVQLFYDVLVHYQDQWDLRPGTAF FRVTEGIPRLHSQAQETWPEL/PLRRVRR QENLSSGYLDDTLLETANGPTFCLPARPF \NNMTATYNQLSRS
6952	15003	A	7643	1	2753	MKEFSSTAQGNTEVIHTGTIQRHERHHI GDFCFQEMEKDIHDFEFQWKEDERN SHE APMTEIKQLTGSTNRHDQRHAGNKPIKD QLGSSFHSHLPELHMFQTEGKIGNQVEK SINSASLVSTSQRISCRPKTHISKNYGNNF LNSSLLTQKQEVHMRKESFQCNEGKAF NYSSVLKHKHIIHLGAKQYKCDVCGKVF NQKRYLACHRRCHTGKKPYKCNDGCKT FSQELTLTCHRLHTGEKHYKCSECGKT FS
6953	15004	A	7644	1	149	DSFGASRFLRIHAET\YFTLRAFYAESRCI EALDELASLQVTMHQAQKHT
6954	15005	A	7645	81	331	KGARFLLILYLLDAFLFNLDLFLEYP YFLLCFCSLLFFCHCFSLYFFVCRPSSS LFSSSILLILFFLVRLLFCLFL
6955	15006	A	7646	701	1114	ATRHSMLSCHYTYIYIKHTHTHVFIYIT YTYIHTIYTYIYIHTIHIYIYIYIHT FFFFFFFFFETESRSVTQAGVQWHDLGSLQ AASWGHA/DSPASTSQAAGTTGAHHHA Q/LIFFFVFLVETGPHRASQDS
6956	15007	A	7647	1	207	RSVFRERGLKSAG/SLVERLYRVRFRDRF ERILKMARKAVETHVLRSPLVSDYRDS IIPSESLALPC
6957	15008	C	7648	244	432	
6958	15009	A	7649	898	1144	IFQLLMEGPANIIGNTGSSNTGRSNTGP SNQSSYLISFLFLCFETESRSRPGLV QWAWISGSLQALPPGSTPFSCLS

6959	15010	A	765	1	493	KGPVSKEPRSGMNRNSALRVNVRPLRPC PQEGGLPLQSCVPPLGLCRVPSRGKQPK HLLPTG**AIAGLPNLHVIDFIPLKLSFGL* GVPQGGPPPLGRGPQSQGS�VTQAPMGG GPRKGLPIDRPCE*GACTLGPWAAPVPLS SKGPPPTVGPRSLSDSFSAR
6960	15011	A	7650	1	476	ATRELVTSGLRRKTGLWARPKEKPTA WHLASLSRPDELVRNPQEPQPGPREEGS LGHVARTPAPGGGGQRHLSRAGHSRPG RRFKATLWLASEHPLSLGDQVTPHIDLM AISNAHFAKLDRDFITLRLPPGFVPKIEIPL FHVNLNARIHLSGNLCGC
6961	15012	A	7651	1	1071	
6962	15013	A	7652	2	240	SCSIGSFQFG/YYPGVINAPETIHKKFINK/S LTAKANAPPSEVLLTNLWLSVAIFSRRG YESASLFPSGLFVNRFQVLT
6963	15014	A	7653	2	391	QTGRGMWCSSLVFLLLPATPRKQSEPK TTDAAAPGTADTAGPGTMDTAVPRKAE TAVPGKRNTAVPGTADPASPGTADTAEP MRTTTPTVLASWPSLTQSTKAPSPRLLP APSPGSCSATSTSCSRSP
6964	15015	A	7654	1	200	
6965	15016	A	7655	3	416	CLFPVQLLLDHGADPNQRDGLGNTPLHL AACTNHVPVITTLRGGSGFFPSLSFSFSP SPPECSPQLVPAGARVDALDRAGRTPLH LAESKLNLLEGHAQCLEAVRLEEKHIIIH MLKEHLELLGRHYQLINAWMTLD
6966	15017	A	7656	1	395	KVQSRCSSKÆENILRASHSAVDITKVARR PRMASFALTSMDKAFITVLEMTPLVLTGE IINYRYGMARGLVQYVVSDDIVSFLFSL LYEYFIRSFHFSLSLFIYLSLRSFFKLRESF FCFSSIFLSSTFALS
6967	15018	A	7657	210	441	LNPILYSPGRDHRVQNFHLPRLCIQKLP KSKCFIYELPAHRKKLVQLEPLTDELE PDFVRQVTESMSYIFSHSMI
6968	15019	A	7658	8	399	RVGVAGPAPWWLRVSLGGRDFHTPISV TKVAERGKAEDADLRPGDIIVANGESAE GMLHAEAQSKIRQSPSPRLQLDRSQAT SPGQTNGDSSLEVLATRFQGSVRTYTES QSSLRSSYSSTPSLSRA
6969	15020	A	7659	2	260	WEPPWPGPVLGLPPLPPPSSPSLPIPPP PRGCSLGASSA/WTAWVSSPKEPVRQE PPPGGEGSNENHRRKWHPPFSVMLKSCY
6970	15021	C	766	82	201	MKSKHFINLISRQHKNYNLIYTFIRSRDF KTAIFLSILS*
6971	15022	A	7660	2	442	PRVRVYYFRQGHEAYVEMARKNKIYSI NPKKQPPWHKMELREQELMKIVGIKYEY GLPTLCCLKLAFLDPDTGKLTGGSFTMK YHDMPPDVIDFLVLRQQFDDAKYRRWNI GKGE/CSDRFRSVIDDAWWFGTIESQEPL QLEYPDLSLQ
6972	15023	A	7661	965	1232	TGVQWPDLSLQPLPPEFKQFCSLLR GWDCRRPLPQLADFCIFSRDGGYCYVG QAGLKLLTSN/DLPASASQSAGITGVSLC TQPKSS
6973	15024	B	7662	111	374	MVAAATGSEILLWALQAEGGGSEIGDSG NWIEIAYGTSLGGVRVIVQHPETVGSCP QLLQTFVHRSPVTKIMLWEKHLISVCA DNNH*
6974	15025	A	7663	387	545	

6975	15026	B	7664	181	4716	MGRPAPAVPRPARPATPPAWTAALPAG RPRGDPGFRAFLCPLICHNGGVCKPDR CLCPPDFAGKFCQLHSSGARPPAPAIPGL TRSVYTMPLANHRDDEHGVASMSVHV EHPQEASVVVHQVERVSGPWEEADAEA VARAEAAARAEAAAPYTVLAQSAPRED GYSDASGFGYCFRELRGECASPLPGLR TQEVCCRGAGLAWGVHDCQLCSERLGN SERVSAPDGPCTGFERVNGSCEDVDEC ATGGRCQ
6976	15027	A	7665	209	1288	EEKNERRDRDTERKGEARTSKTSQKRET KETTGGKTKQKRKKEKTTDKKTKRKKR TSKTEENKKRKQEKEDRERDESTKRRKE GERERRGNARRRKKGGEHSSKRGERRN NSKGEHEEEERGRKTKAKTRTRQATNT DSKNEKGRKGKGQTRARRPAETGRRRR KRRQRKAGETTPGETGRWCASVRSVD GSPTTAFTVLECEGSRRLGSRPRRYLLN CQANGSLAMWDLTTAMDGFQAPAGG LTEQELMEQLEHCELAPP/R/CASSSLNG AVSPSPSPRISLT/NASTQASSNTSFVWPT VGSPKPPARLKARRRGWGEALWKAAR NWCGVGQTS DGHPHQAPWPSKRSRHSP HTFQE
6977	15028	A	7666	3	1703	GRRRAALGVAIGAAGAAARAAAWTGP ARRASPRALHPGRVRPALRPWADRLPLY PDLRAPQRHQHQRQRSSRRGGPGGTRLPR LVPSEAAEPAQPSGASAAARRTAQPLSDG ATRCPTLAMHGCWAECWMRKPLPHPQ VRFYLVGQPEEPGMVRLVCGHNNWIA VAYTQFLVCYRLKEASGWQLVFSSPRLD WPIERLALHVARVHGGALGEHDKMVAA ATGSEILLWALQAEGGGSEIGVFHLGVP VEALFFVGNQLIATSHTGRIGVWNAVTK HWQVQEVQPITSYDAAGSFLLGCGNNGS IYYVDVQKFPLRMKDNDLLVSELYRDP AEDGVTALS VYLTPKTS DSGNWIEIAYG TSSGGVRVIVQHPETVSGPQLFQTFV HR\SPVTKIMLSEKHLISVCADNNHVRT WSVTRFR\GMISTQPGSTPLASFKILALES ADGHGGCSAGNDIGPYGERDDQQVFIQ KVVPSASQLFVRLSSTGQRVCSVRSVDG SPTTAFTVLECEGSRRLGSRPRRYLLTGQ ANGSLAMWDLTTAMDGLGR/SPAGGLT EQELMEQLEHCELAP
6978	15029	A	7667	8	566	TLVTVGNSQGREGLAFLVSCPEGRADCA SESACSSDSLDEARSSGSEGTADTGDL PGHGASAPSVSREARQTVPLTVRLHTQ SVSECITEDGRTVAVGDIVWGHR*GRT CWPGASDLCSTL*AFWPAACRAHWAR WSAWCEVPRGPVCSGRGWT*AQRLLP LSVFVPTTQORMAALAHEAV
6979	15030	A	7668	2	610	SPEILVDPRLRPRVRLAFLVSLVGRADC ASESACSSDSLDEARSSGSEGTADTGDL SPGHGASAPSVSREARQTVPLTVRLHT QSVSECITEDGRTVAVGDIVWGKIHF WWPARVLDISL/WPEGGRRAVLAR\RKV SWIGSPTTSFSLISKLSPFSEFFKLRFNRK KKGMYRKAITAANAARHVAPEIRELLT QFET
6980	15031	A	7669	3	392	ADAAVPTRCVTSGHSLPISGHAAESELFH R/P/AGILPSRRNVLPARGASSTRRARPLE RPATPVVPAPSSRAARSRHIDPLLQSSSPT PPGPTGSAAYVAVPTPNSSSPGAPRPA GAMLYHSWVSEITE
6981	15032	A	767	88	372	QGMDSKRRGVKLNDDGQFMPVLGFGTY APS*VPRSKALEVTKLAIEPGFRRIDSGH LYTNEEQAGLAILNMIADGCVKREDIFY TSELWATFY*PE

6982	15033	A	7670	5	393	GFRNPPRDSHHPHSTRRRRAFLRRWEKD PGRGKGRAPEPAQQORDASPPTRRPLEGP/ PREHLRQWERLPFPKSPWKEVFAFVSAN KACSALSGPVAPVETAAEPSPPS/PRVRG RSGPRTKGARPRNRCCDD
6983	15034	A	7671	2	399	ARTNTGGRPYCFIRMSNLIHRTQQGYN NPRPLSTNILSDIQTETKLRPPYQISMCE LGSAGVTSAFSADCKGAEKISSGHQRL EPATLSGIAIGFILSLLWGALNLIPGFHAI QRLLOREGDDFNSFIALF
6984	15035	C	7672	151	339	MSTFPIHISPKLRGDDVRGRXLXWRWPL RGFCATVRWCPPGAAGWCAXPVRAESA FXRPAKS*
6985	15036	A	7673	19	443	SVRWNSCRAEAPQWPAPAAAPAAHSPH LSLGESGLGKLILNSLFLTDLYSPEYGP SQRIKKPVQVYILVFLIDDKLE*Y*YTQST CCNFHYASQSWQPAINYIDSKFEDYLN ESRVNRCQMPGNRVQGCIFYIAPSGH
6986	15037	A	7674	152	532	QALRANRPAPVAEGATDRTVAQKLLNG QRQLQRPPTRLI*AWVEQSKVLK\DGG VQLLTIVDTPRFGDAVDNSNCWQPVIN YIDIKFEDYLNESRVNRCQMPGNRVQ* *LYFIAPSGHGPHLN
6987	15038	A	7675	1	627	GSARSAAEERSVNSSTMVAQQKNLEG YVGFANLPNQVYRKS VKRGFEFTLMVV GESGLGKSTLNSLFLTDLYSPEYGP RIKKTIVQVEQCGVLIKEGGVHLLTIVD TPGF\GDAVDN\SNCWQPV\IDYIDSKFE DYLNESRVTRRQMPD\NRVQCCLYFIA PSGHGL\KPLDIEFMKRLHEKVNIIPLIAK ADTLTPEECQQFK
6988	15039	A	7676	2	371	VLELEERALLREARLGRARSSGGMQATP ATEGLARPQAPSSSAFRCPCYCKGKFRTS AERERHLHILHRPWKCGLCFSGSSQEEE LLHHTCQVCQSFTQSWFLKGHMRKH KASFDHACPVCGR
6989	15040	A	7677	44	983	RGSMEGSRPRAPSGHLAPSPPAFDGELD LQRYSNPVAVSAGSLGMGAVSWSESRA GERRFPCPVCGKRFRFNSILALHLRAHPG AQAFQCPHCGHRAAQRALLRSHLRTHQ PERPRSPAARLLLELEERALLREAPTGES PKLRGHAGHPLPLMVW/PRPQAPSSAF RCPCYCKGKFRTRLERERHLHILHRPWK CGLCSFGSSQEEELLHSLTAHGAPERPL AATSVAPPPQPQPQQPPQPEPRSVQPEP EPEPEREATPTPAPAAPEPPAPPEFRCQ VCGQSFTQSWFLKGHMRKHKASFDHA CPVCGR
6990	15041	A	7678	1	582	GNAGLSSLTEGVLDLFAVKAVYMGHPGI DIHTVCVQNKLGSMFLSETGVTLTYGLQ TT\DNRLHFVAPKHTAKMLFSGLELTR AVRKMRFKPDQRQQWLRKQYVSLYQE DGRYEGPTLAHAVELFGGRRWSARNPS PGTSAKNAEKPNMQRNNTLGISTIKKKK KILMRGESGEVTDDEMATRKAKMHKEC R
6991	15042	A	7679	2	428	SVGSESDSSKE\GPSMTRSGPLRRSRAVP G/PEESQGNTLVIRVVIHDLQQTCKIRFNP DATVWVAKQRILCTLQSLKDVLNYGL FQPASNGRDGKFLDEERLLREYPQPVGE GVPSLEFRYKKRVYKQASLDEKQLAKL HTK
6992	15043	A	768	177	311	WFQNPCYYLFFLETESLSPRLERSGTVS AHCSL*LPSSSDSPAS
6993	15044	A	7680	1	248	VIFLVNSGSEANELAMLARAHSNNIDII SF/RTMCPDVFRGPWGGSHCRDSPVQTIR KCSCAPGPTGQGGCQWSVGSWKGHE
6994	15045	A	7681	1	501	

6995	15046	C	7682	60	380	
6996	15047	A	7683	3	649	LSPSYFHSISFPHSLFLPLEGTVTRNRELW GLLQAMGVHHSRIPLAPPPLNLKVVQ DSEQLEPGLQSASMGVGLSGRNDNSLE TFAETLVPGSIPLPGILEMHPFLSLGTSRT SVTKLSLHIKPRMPPCDFMPERYQVIFLV NSGSEA\NE\LA\ML\MARAHSNNID\NSFR GAY\HGCS\PYTLGLTNVGT\YK\MKLP\GG TGCQPVSL\EIFLLFL
6997	15048	A	7684	27	211	FHIVQYFNFFVCLFVCLFETESTLSRLEG SGVISAHCN\LA\TLPPGFNNSCASRVAG TTQ
6998	15049	A	7685	1	310	RPRRRGDHREVKGGRGKGKGGEGRPQGG QRWAVGKGGEGRPQGGQRWAVGKGGE GRPQGGQRWAEKGGEGRPQGGQR\GQ WGKGGEGRPQGGGER\GPGGKGGE
6999	15050	A	7686	2	320	KYVFTDISYSIPHRERFIVVREPSGTLRKA SWEERDRMIQVYFPKEGRKILTPIFKEE NLRFEPSDEYIKVHHKTYEDIGKRKGY DLLRSTRYFGWEVWVFC
7000	15051	A	7687	22	1071	GVLRAWNGSVSGLESSPGTVACSNRYL ALSRWGCHSRINSYGAESGSPETKKPT FMDEEVQ\RVLT\KMT\GLNLQ\TKFPAIQ ELKPPTYK\MTQAQ\LEEATRQAVEAAK VRLKMPPVLEERV\INDVLAGDKDFWK GTETTKYVFTDISYCIPHRERFIVVREPS GTLRKASL\EDRDRMIQVYFPKEGRKILP PIIFKEENLR\TMYSDRHVDVNL\CFQAQ FEPDSTEYIKVHHKTYEDIDKRKGYDLL RSTRYFG\EMVWYFVN\NKKIDGLLDIQI RDLIDDATNLVQLYHVLHPDGQSAQGA KDQAAEGINLIKVFAKTEAQKGAYIELT LQTYQEALSRHSAAS
7001	15052	A	7688	2	383	FSAPAASEPLPFGPPPEPLPFGPPPSDP LFAAAPPSEPLTFSGPPPPSEPLTFSGPPP SDPLCFTAPPSEPVFSGPAPSDRLPFFG PTTSEPPNR\PGMPTQPHICLSKNTPLPE PTRLHP
7002	15053	A	7689	3	2484	PAIKIRRRRVRDLQDPPPMQMAPEIQPPSH HFSPEQRALLYEDTL\YTVLHRLGHPEPN HVTEASELLRYLQEA\FHVEPEEHQQTLO RVRELEKPIFCLKATVKQAKGILGKDVS GFSDPYCLLGIEQGVGVPGSGPSRHRQ KAVVRHTIPEEETHRTQVITQTLNPVWD ETFILEFEDITNASFHLD\MDLDTVESVR QKLGETDLHGLRRIFKEARKDKGQDDF LGNVVLRLQDLRCREDQWYPLEPTES YPDRGQGHLLQGQLVHKRRATSASRSQP SYTVHLHLLQQLVSHEVTQHEAGSTS/W GRVAESQAATVFLHATQKDLSDFHQS MAQWVAYSRLYQSLEFPSSCLLHPITSIE YQWIQGR\KAEEQEE\LAASFSSLLTYGL SLIRFRSVFPLSVSDSPARLQSLRVLV QMCKMKAFGELCPNTAPLPQLVTEALQ TGTEWFHLKQHHQPMVQGIPEAGKA LLGLVQDVIGDLHQCQRTWDKIFHNELI SSTLKIHLFSMAFRELQWLVAKRVDHT TVVGDVVSPEMGESLFQLYISLKELCQL RMSSSERDGV\LALDNFHRWFQPAIPSWL QKTYNEALARVQRAVQMD\ELVP\LGET KHSTSAVDLSTGFAQISHTARQLDWPDP EEAFMITVKFVEDTCRLALVY\CSLIK\AR ARELFFRARRTKARAANMLCVVNDME QLRLVIGKLP\AQLAWEALEQRVGAVLE QGQLQNTLHAQLS\GALAGLGHEIRTG VRTLAE\QLEVGI\AKHIQKLVGVR\ESVLP EDAILPLMKFLEVELCYMNTNLVQENFS SLLTLLWTHLT\VLVEAA

7003	15054	A	769	193	363	IPLALSTGNGTLLFFF*DRVSLLSPTLECS GVISAHCNLCPLGSSYSAALASQVAGI
7004	15055	A	7690	31	510	GDHASDKETITIVNIYAPNIRACSKYIKQT LTELKGEVDSNVITAISILRFQQLPTLIKT ESLRNRNNSSSSSSSSSSSSSSSSSSSSSSLKSLP TKESIGPDGFTDEFYQTFKEELK/PKSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSPEKDATRE ENYRPISL
7005	15056	A	7691	2	189	TYHIDRIKDKSHMIISIAATEKAFFDKIEHPF MIKALSQLEVVGMTNVIAIKYKKSMAINI TQQ
7006	15057	A	7692	3	409	NTANRAARVSASIEDSPDNSETLPPDESF RNGENAKRFAIDIGGTLTKLAYYSTVQH KVAKGRAFDHSGKDTERDTSRPMRVQF KKRALLDGTSLRRRKPTPKPAWTSSSKTIS STQRP/EVIQATGGGAYKVKDLI
7007	15058	A	7693	88	480	KEELYGDFEDLET/G/DVHKGKSGPDTQN EDIEK\QDEIDPDEKKSAKKKHLDKKRKL KEMLDAEYDEGESTYFDDLKGEMQKEA QMRLKNHRWYKKILKSQDPIIFSVGWRR VHTILLYIEDHNGRQRLKY
7008	15059	A	7694	1	1068	MAANRKDFIHRRCGPESQSEAVPQGLC RAERSSALAMLSGSPRRQTQLRPCKGTQ RRCRRGGEADSGGEAVGGGAAERRSAA ARRRGRRRGGEAVGGGAAERRSAA ARRRRGRRRRGGGEAGGGGAAEARR AAAAARRAAAAARRAAAAARRAAAAARRAA AARRIAESGGEAHSRGEAHSRGEAHSRGG AGAERRRPRLHSPALKTHPGQSSEGHVE YKLNHVEFEDQDDEARVQYEGFRPGMY VRVEIENVPCFVQNFDPILYPIILGGLGN SEGNVGHVQMRLLKHLWYKKILKSQD PFISSVGGRRFQTIPLYIEDHNGRQRL KYTPQHMHCGAAFWGKI*Q*LAYCRD
7009	15060	A	7695	66	844	KEELYGDFEDLETGDVHKGKSGPDTQN EDVEK\KEEIDPDEEESAKKKHLDKKRKL LKEMFDVEYDEGESTYFDDLKGEMQKQ AQITAYRFSPTTPSCTLNHAEFEDQDDE ARVQYEGFRPGMYVCVEIENVPCFV*N FDPRIYPIILGGLGNSEGNVGYVQVGFPA AYLVPEALWISPPSILPSHPPQMRLLKH RWYKKILKSQDPIIFSVGWRRFQTIPLCYI EDHNGRQRLKYTPQHVHRG/AAFWDKI CLQ*LAYC
7010	15061	A	7696	1	1177	LRMRLGTRSALWACRGWGQQHMHAW LTEQPLGVLPEELYGDFEDLETGDVHK GKSGPDTQNEIDIEKEVKEEIDPDEEESA KKKHLDKKRKLKEMFDAEYDEGESTYF DDLKGEMQKKAQLNHVEFEDQDDEAR VQYEGFRPGMYVRIEENVPCFVQNFDP PHYPIILGGLGNSEGNVGYVQMRLLKHR WYKKILKSQDPIIFSVGWRRFHTIPLYIE DHNGRQRLKYTPQHMHCGAAFWGPIT PQGTGFLAIQSVSGIMPDFRVAATGVVL DLDSIKIVKKLKTGFPYKIFKNTSFIKG MFNSALEVAKFEGAVIRTVSGIRGQIKK ALRAPEGVFRASFEDKLLMSDIVLMRLS TCSIPA/FY/NPVTSC*TIGEKHLVRMRPR P
7011	15062	A	7697	163	371	KGTTKLTVKLSDFKSYFKAIVIKTVRN/W HKYK\HIDQWNRIQNPEINPHIYQGMIFK KRAKNKQWKDGL

7012	15063	A	7698	270	1479	PGCAFSSSGTSRQLAPVLGYLGSRQKHS LPDLPYDYGALEPHINAQIMQLHHSKHH AAYVNNLNVTEEKYQEALAKGRFQAER EKNVCTFNF*GDVTAQIALQPALKFNG GGHINHSIFWTNLSPNGGGEPKGWIYCA PLSTTSCTVGIDVISWAL*QKIF*IHVI*HF TVIIGNLFICGWFWDFFFNRLELEAIKRD FGSFDKFEKLTAAASVGVQSGSGWGLG FNKQRGHLQIAACPNDPLQGTGTYI*IG LSVVPVWKTSPLLKNVDSKVGRKTVY QGDGHYVNHHPNQVFWGRGAVKALNR NLKGAPDLELDGESRANCGEKGREESER SGR*AWQLCSVTGAPFFLTGLIPLLIDV WEHAYYLQYKNVRPDYKAIWNVINW ENVTERYMACKK
7013	15064	A	7699	94	330	KSRSYKKMCLHFNFGSDVTAQIALQPAL KFNGGGHINHSIFWTNLSPNGGGEPKG WYILVHPYLHFVHSRNRLLIYWR
7014	15065	C	77	183	350	MYGLPGFFYHRXXXXXXXXXXXXXR HAPALRVTNRSHSPTGGRVALPQPWL MV*
7015	15066	A	770	260	360	SPN*SPNVIFDS*DSPEKTAATVRGDFYV TGDRGMMD
7016	15067	A	7700	33	807	GPRAAQERHSLWWLRQLQQIGGISG STSTSSMLSRVCGTSRQLAPVLGYLGS RQKHSLPDLPYDYGALEPHINAHIMHLH HSKHHAAYVNNLNVTEEKYHEALARG DVTALQALQPALKFNGGGHINHSIFWTN LSPNGGGEPKG/EELLEAIKRD/FGSFDK FK\KLTAAASVGVQSGSGWGLGF\NKER GHLQIAACPNDPLQGTGGLIPLLIDV WEHAYYLQYKNVRPDYKAIWNVINW ENVTERYMACKK
7017	15068	A	7701	2	436	SGRGASLRPGVRPPSVSWEPYSGPSTPP PPSSRSKDVGKPAQSWVRGGSTQPN TGQ LPKEGLSTHPVPRAGIPSSRQALLSSGN PGTRAPSAPALRPEAQASPAEFP GAP/SPE LGGERLGGARFQEP PPQAASFPGAAAT QA
7018	15069	A	7702	1	389	PGSSRQRCWHQPCFACQACGQALINLIY FYHDGQLYCGRHHAELLRPRCPACDQLI FSWRCTEAEQQRWHENHFCCQDCAGPL GGGRYALPGGSPCCPSCFENRYS DAGSS WAGALEGDAFLGE/HWKVTHSLGR LDS TN
7019	15070	A	7703	1	1217	MGGHLANVPTGTSLQQTGLMEKHFTSG KQLLKTLONNIPQTTERTHNGWHQAWL LVFSCVRSFYVAALFAVGLGCGIHWFC AVFSVCAGHSTAVVSLPGSQHLSANM FVALHSYSAHGPDLDLQKGEGRVVLG KCQDQWLRGVSLVTGRVGIFPN NYVIPI FSTPSQLSGCREVGPTLVKPVVHKMGVY GWEEGSISEGD/HGKAVPSNPS/VVPTAIV NPVRSTAGPTLGQGSRLKGRSSMRKN GSLQRPLQSGIPTLVVGSLLRRSPT/MGPS ASAVPILPATGDPLPLSRGGGDGVQA/S PSRGSPSRASAGAVRPGSTPRPAPSLWK TKKSPSRVS/LLPKPPASAPPSILVKPENS RNGIEKQ/DQNREISEIQALLPPNITLPYPT SGKPEQPSLPQCVPA
7020	15071	A	7704	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLEG SGVISAHCNLTLPFGFNNSCASASRVAG TTQ
7021	15072	A	7705	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLEG SGVISAHCNLTLPFGFNNSCASASRVAG TTQ

7022	15073	A	7706	1	514	LSQSEKNNYYSSRFSFSDSQYIDNRSVNSD RASQ/ARERAPRLNHPPEQIDSHSRPLPHS AHPGKPPSAPASAPQNVFSTTVSSGYNT KKIGKRLNIQLKKGTEGLGFSITSRDVTI GGSAPIYVKNILPRGAAIQDGRLLKAGDR LIEVNGV\DLVGKSQEEVSLLRSTKME G
7023	15074	A	7707	65	515	DPRVRAAGILYEFTWNQFCDWYLELTGP VMNGGTEAKLRGTRHTLVTVLEGLRL AHPPIPFITETIWQRVKVLCGITADTIMLQ PFPQYDASQVDEAALADTEWLKQAIVA VRNIRAEMNIAPGKPLELLVAG\CTRNPN TSVNENRGFL
7024	15075	A	7708	2	505	EPVKKIFNYIIHVFRNIMDFKFLVVFVAG VFLFFYARTLSQSPTFYSSGTVLGVLM TLVFLVLLLVKRFIPKYSTFRALMVGCWF ASVYIVCQLMEDLKWLRYDNRIYVLGY VLIVGFFSFVVCYKHGPLADDRSRSLLM WMLRLLSLVLVYAGVAVPQFAYAAIIL
7025	15076	A	7709	2	417	EPVKKIFNYMIHVNRNIMDFKFLVVFVA GVFLFFYARTLSQSPTFYSSGTVLGVLM MTLVFLVLLLVKRFIPKYSTFWALMVGC WFASVYIVCQLMEDLKWLWYENRIYVL SYVLIVGFFSFVVGTSMSGPLADDSRNL
7026	15077	A	771	80	357	GPFFFFGDRVLLCHPRLECSGMITAHCS LKLLCSQ*PSHNSLLNSWEHRHMPHPLA KFFFHQQTKL*KK*KNRSLESAPLSVFI KKVTTT
7027	15078	A	7710	14	426	RPIRMAVKQKISMLCHVNPEQVICIHDVS STYRVPVLEEQSIKVFYKERLHLPIGDS ASNLLFKWRNMADRYERLQKICISIALV GKYTKLRDCYASVFKALEHSALAINHKL NLMYIDSIDLEKITETEDPVKFHE
7028	15079	A	7711	61	204	GRYAYVWHCPQGPGLTP\AVADTSGA YFRREGLGSNYLGGRSPTEVS
7029	15080	C	7712	537	710	MCHHTQPIFVFMVEMRFYVVGQAGLEV LTSGDPPVSAAQSTGITGLSHRAQSPSVR F*
7030	15081	A	7713	788	894	KHG\WLGTVAHTCNPSTLGGQGGWIMR SGVQDQPGQ
7031	15082	A	7714	1	452	SPVPQLIVPTVLSV\LEPFLGAPLPANR LWTHLWAPRAWKQSPWQAP\GLGRPLPS SLGIGSCGAPGAYTRPDRLHDKACPAE HGGGRGPGEAASRPLTAPSPGGCPEPGL GTTSPQSRTASSGGSYRSFTDPPPPPIC HHRRFFLTL
7032	15083	A	7715	48	421	DLQSSQGGQPRVQSWSPGRGIPQLPC AKALYNYEGKEPGDLKFSKGDIIILRTQV DENWYHGEVNGIHGFFP\TNFVQIHKPLP QPPPQCKALYDFEGKDKEADKDCLPFA KDDVLTIVRRVD
7033	15084	A	7716	2	492	LTLLNTITPSLARGNFYPLEGGRVLLDGK PISAYDHKYLHRVISLVSQEPVLFARSIT DNISYGLPTVPFEMVVEAAQKANAHGFI MELQDGYSTETGEKGAQLSGGQKQORVA MARALVRNPPVLILDEATNALDADSRDL IQHALS\GNLRKHRDFLSPVWP
7034	15085	A	7717	2	721	EGKVEEPENPAAKEKCEGKEEEEETDGS GKESKQCEAEASSVKNELKGVVEVGAN TGSKSISEKGSEE\VKRKSWMRTNKSEES SQPEAGAVSRGNFDEESNASMSTARDE TRDGFYMEDGDPSVAQLLHERTFAFSF WPKDRVMINRLDNICEAVLKGWVPVN RRQMFDQGLIPGYTPTTVDSPLQKRSF AELSMVGQASISGSEDITTSPLSKEDAL NLSVPRQRRRRRRKIGN

7035	15086	A	7718	111	381	DRGLASFAQGLEVQWHNLSSLQPSPPV LRRF/SPCLGLPRGCDYRPVPPHQANFCI VSRDGFYHVQGAGLELLTSSDPPTSQSQ SAGITGV
7036	15087	A	7719	1	190	ENKEEGQLPSSFYEASIIITLKPDKDSTK KS/SYRPT/SLMNFDAK\IFNKMFTRNRIQQ YIERIII
7037	15088	A	772	80	357	GPPFFFFGDRVLLCHPRLECSGMITAHCS LKLLCSQ*PSHNSLLNSWEHRHMPHPLA KFFFHQQTKL*KK*NKNRSLESAPLSVFI KKVTTT
7038	15089	A	7720	1	2499	MAAAVAAPLAAGGEEAAATTSVPGSPG LPGRSAERALEDAVATGTLNLSNRRLK HFPRGAARSYDLSITQADLSRNRFPFV EAACQLVSLEGLSLYHNCRLCLNPALGN LTALTYLNLSRNQLSLLPPYICQLPLRVLI VSNNKLGALPPDIGTLGSLRQLDVSSNEL QSLPSELCSLRLDLNVRNQLSTLPEE LGDPLVRLDFSCNRVSRIPVSFCRLRHL QVILLDSNPLQSPPAQVCI.KGKLHIFKYL STEAGQRGSALGDLAPSRPPSFSPCAED LFPGHRYDGGLDSGFHSVDSGSKRWSG NESTDEFSELSFRISELAREPRGPRERKED GSADGDPVQIDFIDSHVPGEDEERTVEE QRPELSPGAGDRERAPNSRREEPAGEE RRRPDTLQLWQERERRQQQSGAWGAP RKDSLLKPGLRAVVGAAAVSTQAMHN GSPKSSASQAGGCSGAGSPAPAPASQEP LPIAGPATEPAPRPLGSIQRPNSFLFRSSS QSGSGPSSPDSVLRPRRYPOVPDEKDL TQLRQVLESRLQRPLPEDLAELASGVIL CQLANQLRPRSVFIHVPSPAVPKLSALK ARKNVESFLEACRKMGVPEADLCSPSDL LQGTARGLRTALEAVKRVGGKALPPLW PPSGLGGFVVFFVVLMLLLYVTYTRLD PRSPQVAWEVAPSRMTPLAPWDPKYE KAGPRPVVWSWGQTCGTGWGAQGA WPEAPVLCPPHPRGPTVAQEPRSQAGRC VTPHSGRCMKQPRAGVSGPWPLPQGTG MDSRRPQMQGSRWCAVKMSSSRTLCCP GGSVFPCTCPRPPSR
7039	15090	A	7721	1	647	RPPVPQVPDKDLMTQLRRVLESRLQR \PLPEDLAELASGVILCQLANQLRPR\SV PFIHVPSPAVPKLSALKARKNVESFLEAC RKMGVPEESLCQPHHILEEGAPGRGLR LIIAAVVQRPAAGPALGVKVGAGPPRPG PREQKTRLGSALSEKHVVVRVAWAWARL GLPRLAASGVEGLGGRTCGCRRRCRVS RKQKPEALWKRGCCKIKKKL
7040	15091	A	7722	3	450	SRSLVQRGGIPLGGWRMGVRRGTGQVGP TMHPPPVSGASP/PPPPPPPPPHHHPHL LRTSCVPISGLYQSSSSSSSSSSSSSSSS SSSSSSSSQLNKLKFKQVSSPNSPTLSSSF SFLPFPFASLTRQFFIECLPGAGMSQVL GK
7041	15092	A	7728	3	368	LLGQAVKYGVNPGPYGGTTRKLYEKK LLRLREQGPESRCSTPVTISSSAENARQ NGSNDSGRYSVNEEDSKIELKLEKRDPL KGRAKTPVTRKQRRVELSESYSQAGMD EGVWSSGSSKG

7042	15093	A	7729	1	1492	ALMDEILMLQDEINELQSSLAELVSESC EADPAEQLALQSTLTVLAERMSTIRMKA SGKRQLLEEKLNQLEEQRQEALQRY RCEADELDSWLLSTKATLDTALSPKKEP MDMEAQLMDCQNMLVEIEQKVVALSEL SVHNENLLEGKAHTKDEAEQLAGKLR RLKGSLELQRALHDKQLNMQQGTAQE KEESDVLDTATQSPGVQEWLAQARTTW TQQRQSSLQKKELEQLAEQKSLRSV ASRGEEILIQHSAETS GDAGEKPDVLSQ ELGMEEEETSAEDQMRMKWESLHQEFS TKQKLLQNVLEQE QVLYSRPNRLLSG VPLYKGDVPTQDKSAVTSLLDGLNQAFE EVSSQSGGAKRQSIHLEQKLYDGVSATS TWLDDVEERL FVATALLPEETETCLFNQ EILAKDIKEMSEMDKNKNLFSQAFPEN GDNRDVIEDTLGCLLGRSLSDSVVNQR CHQMKERLQQILNFQVSKILSKDT
7043	15094	A	773	810	1075	SLRSSKTQPRQHGTSSLLKIQKISRWW* RITLLGKLRQENCLNPGGGGCSEPRLHH CTPAWATE*DSGSQKKKKQGGRKSCHF SVRT
7044	15095	A	7730	1073	1233	PYSGLGIFFFLRHGLTSPRLGCSELRLC HCTPAWVTSTKTVSKNKKQKNSR
7045	15096	A	7731	34	445	STHASGDHSHKPIICS/TG/SYFFANSLPSKG PTILMPVNTAALTVPANPASVITVPSKLP TSSKPPGAVPSNALTNPAPSKLPINSTR GMVPSKVPTSMVLTKGCASTVPTDGSSI NEETPMAPTPAGAVGSSLAWLDT
7046	15097	A	7732	3	416	
7047	15098	A	7733	1	2115	
7048	15099	A	7734	1	662	SLFASNVGSGHFIGLAGSGAATGISVSAY ELNGLFSVLM LAWVFLPIYIAGQVTTMP EYLRKRFGGIRIPILAVLYLFIYFTKISV DMYAGAFIQSSLHLDLYLAIVGLLAITA VYTVAGGLAAVIYTDALQTLIMLIGALT LMCYSFAAVGGMEGLKEKYFLALASNR SENSSCGLPREDAFHIFRNPLTSDLPWPG VLFGMSIPSLWYWCIDQGG
7049	15100	A	7735	3	315	
7050	15101	B	7736	107	388	SKKLLFAGSRSQLVQLPVADCIKYRSCA DCVLARDPYCAWSVNTSRCVAVGGHFG SLLIQHVMTSDTSGICNLRGSKKVRPTPK NITVVAGTDL*
7051	15102	A	7737	98	473	IRGDTISYTVRSPPPRAGREYAMSTAGPP SPFSPLTQFPALYREEGKYKIPLNPGAK/ YVRAPPNPSPQTHSRLHFPSPHENIHRP WSRTRPTSPALPLKGHSTLSTPPYVHR CPTFGGSGG
7052	15103	A	7738	2	433	GDTGHRERSLGLLREKHTWGPPHPQATP QAAVPSSRYTQPGPQGWVTVQGQPPSR GEHPRPAAGLSQLLHLGVPDGLGQSG DCEVTPKPSYSFPGTSGAGPPGTMGSSLP GNGNWDEEAHTLPQGQEGMNEGGVPW RLIFR
7053	15104	A	7739	328	496	HNTDLFIY/CIYEMESCSVTQAGVQWRD LGS LQPPPLGCKQCSCSLPSSWGLQVP ATT
7054	15105	A	774	499	946	LWLRPRGAGIAGAGICLRREGTWLLPLR SHGGKCEAASPWVSQRLELLQKPSALW WPLGLLHVHIFWKYTCAGSFLAGKLLRJ TFNFFLFFLPPFISCFYLFLLFFFRDGV SLCCSGWF*TPGLKQSSCLSLPSSWDFKC TPLCLL
7055	15106	A	7740	1	372	MEKEEPGVERKKENRVKEVIHKNRKG EGPPAGAALPLGGRGEGP/SPEPPGGAAA PRAGERCGLAGASPEPAETGTREPRPR GASAARKLAAAAAPVGLLRPGCPRAGR

						RAPWPGKRLSEPRV
7056	15107	A	7741	34	366	ERPGPVGTLTPTQGPHPAGP/S/GRPGS LGFTWPYPGPCTWRPAWFPARPPAGSI TPPGFCTHTLVSLDPGRDCPSPTGDCDS LCPPHPDASPGIKAFCAQGGKKKKKK
7057	15108	A	7742	2	462	IRARNYKLRKVMVDGDIPPRV/KKDAHE LILDFIRSRLPKQVSRRLRRLPPKQSRSL HEKILEEIKQERRLRPVGE/ELGCPRVW LS/SPASSTPAPEMPSPPASTCQSQMLGA AP SAR/VPRVLLKAPTLAEMEEMNTSEIR AQGPRNVTAHNQ
7058	15109	A	7743	2	1002	TGPGVPMQVGEDYGEPAPEEPPAPRP SREQKCVKCKEAQPVVVIRAGDAFCRD CFKAFYVHKFRAMLGKNRILFSGEKVLL AWSGGPSSSSMVWQDLEGLSQDFAKRL RFVAGVIFDEGAACGQSLEERSKTLAE VKPILQATGFPWHVVALEEEELVGSEGAY KAAVDSF/RPAAACAGGPGVVLARLKG RNSHPSP/SLDPQNLARPPAPAQTEALSQ LFCSVRTLTAKEELLQTLRTHLILHVARA HGYSKVMTGDSCTRLAIKLMTNLALGR GAFLAWDTGFSDERHGDVVVVRPMRD HTLKEVAFYNRLFSVPSVFTPAVDTKAP EKAS
7059	15110	A	7744	2	397	APDTPDSSKFQRSK/NYKGPLDPQRGKIE DKVNSKSVILKEPGLEDLGTYSDIVTDA DEDISASHTL TEELEKLLKLSHEIRNPGI KLISGWNIDILERGEARLWLELEKLCPA ELHLIVHNKEIFRLPNR
7060	15111	A	7745	1	849	QKKELGHVNGLVDKSGKRTTSPSSDTDL LDRSASKTELKAIHARILERRASRPGTP TSSASTETPTFEQNDVDEDIHDVEEPVA AEPDYVQPQLRRPFELLIAAAMERNPTQ FQLPNELCTPALPGSSKRRRKEETTGN VKKTQ\RELDHNGLVPLPVKVCFTCNRR CRVAPLIQRDYCPLLHMDCLEPPLTAM PLGRWMCSNHIEHVVLNHNMTLSYRC QVFDRFQDTSQHVVKVDFLNRIHKKH PPNRRVLQSVKRRSLKVPDAIKSQNQVS TP
7061	15112	A	7746	1	201	MKKKKEEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEE/EEEEEEEEEEEEEEEEEE EEEEKKKKKKHNIFKILSNLYIFIIFYCSKK
7062	15113	A	7747	3	112	KRTRLGMMAHA/CNLSTLGGQGGRVTR SGVRDQPD LK
7063	15114	A	7748	1	1476	LTVIRRV DENWAEGLADKIGIFPISYVE FN SAAKQLIEWDKPPVPGVDAGECSSAA AQSSAPKHS DTKKNTRKRHSFTSLTMA NKSSQASQNRHSMEISPPVLISSNPTAA ARISELSGLSCSAPSQVHISTTGLIVTPPS SPVTTGPSFTFPSDDPYQAALGTLNPLP PPPLLAATV LASTPPGATAAAAAAGMGP RPMAGSTDQIAHLRPQTRPSVYVAIYPY TPRKEDELELRKGEMFLVFERCQDQWF KGTSMHTSK\GGFPGN\YVAPVTRAVT NASQAKVPMSTAGQTSRGVTMVSPSTA GG\PAQKA\QNGVAGSP\SVVPAAVVSA AHIQTSPQAKVLLHMTGQMTVNQARNA VRT\VAAHNQ\ERP\TAAV\PIQVQNAAG LSPASVGLSHSLASPQAPLMPGPATH TAAISIRASAPLACAAAAPLTSPSITSAS LEAEPGRIVTVLPGLPTSPDSASSACGN SSATKPKDKSKK

7064	15115	A	7749	139	6503	LSGITKMTLHATRGAALLSWVNSLHVA DPVEAVLQLQDCSIFIKIIDRIHGTEEGQQ ILKQPVSERLDFVCSFLQKNRKHPSPEC LVSAQKVLEGESELELAKMTMLLLYHST MSSKSPRDWEQFEYKIQAEALAVILKFVL DHEDGLNLNEDLENFLQKAPVPSTCSST FPEELSPSHQAKREIRFLELQKVASSSSG NNFLSGSPASPMGDILQTPQFQMRRLKK QLADERSNRDELELELAENRKLLEKDA
7065	15116	A	775	56	425	GQSPPGHWGHVAQARELLRPGRLPCWV PDGHTPVVRPVSGPEPPTGSRILSGEESPSR PPSSQAARPPGQPRDPSSLRIPLLRP* LSQSGGLASSGSLRAGALPRRPPGPALLS PTPCTSI
7066	15117	A	7750	1	5290	MTLHATRGAALLSWVNSLHVADPVEAV LQLQDCSIFIKIIDRIHGTEEGQQILKQPV ERLDFVCSFLQKNRKHPSPECCLVSAQK VLEGESELELAKMTMLLLYHSTMSSKSPR DWEQFEYKIQAEALAVILKFVLDHEDGLN LNEDLENFLQKAPVPSTCSSTFPEELSPPS HQAKREIRFLELQKVASSSSGNNFLSGSP ASPMGDILQTPQFQMRRLKKQLADERSN RDELELELAENRKLLEKDAQIAMMQ
7067	15118	A	7751	241	6574	LSGITKMTLHATRGAALLSWVNSLHVA DPVEAVLQLQDCSIFIKIIDRIHGTEEGQQ ILKQPVSERLDFVCSFLQKNRKHPSPEC LVSAQKVLEGESELELAKMTMLLLYHST MSSKSPRDWEQFEYKIQAEALAVILKFVL DHEDGLNLNEDLENFLQKAPVPSTCSST FPEELSPSHQAKREIRFLELQKVASSSSG NNFLSGSPASPMGDILQTPQFQMRRLKK QLADERSNRDELELELAENRKLLEKDA
7068	15119	A	7752	775	1128	REGLYLSRFPFHSLPRTQPDGTSVPGEF ASPISQRLPPKVESLESLEYFTPIPARSQAP LESSLDSLGDVFLDSGRKTRSARRRTTQI INITMTKVRLLGQGLQGSNSHFLSRASLQ
7069	15120	A	7753	331	530	LKIFFFFPSGGDMSKNVVSQSQMAKLNQQ MAKMMDPRVLHMHMGGMAGLQSMR QFQQGAAGNMKGMM
7070	15121	A	7754	1	1517	MVLADLGRKITSALRSLSNATIINEEVLN AMLKEVCTALLEADVNIKLVKQLENV KSAIDLEEMASGLNKRKMIQHAVFKELV KLVDPGVKAWTPTKGKQNVIMFVGLQG SGKTTTCSKLAYYYQRKGWKTCLICAD TFRAGAFDQLKQNA TKARIPFYGSYTEM DPVIIASEGVEKFKNENFEIIIIVDTSGRHK QEDSLFEEMLQVANAIQPDNIVYVMDAS IGQACEAQAKAFKDKVDVASVIVTKLD GHAKGGGALSAVAATKSPIIFIGTGEHID DFEPFKTQPFISKLLGMGDIEGLIDKVNE LKLDNEALIEKLKHGQFTLRDMYEQFQ NIMKMGPFQILGMIPGFGTDFMSKGNE QESMARLKKLMTIMDSMNQELDSTDG AKVFSNNSGRIQLARPSCVSTSDVQELL TOYTKFAQMVK*MGGIKGLFKGGDMS KNGARSQIAKVLNQQMAKMMDPRVLH HMGGMARLQSMRQFKQGAAGNMKG MMGFNNM
7071	15122	A	7755	42	449	FGLFNRLPYPPQHPKPHYSRIPGA/HAPP GPQNPSTFLSPLYCWGPSSKSPGAPKRC PSSISTPPPSATPPRTLGTGWPQRCQKD GEAQSYQVRQDPTASPQAGQSRLPSWS GNQTYLQGLHGRGPRARTLQLPG
7072	15123	A	7756	3	358	LLIHSSTHPPTYPIHPPGHFFLPLFFPFF FSFSPSFHPSHPLIHLSTYPIHPSVYPPV PLSLSVYSSIHLPTEYFLFQPVAH/RRSH GRISSMPGEQSPIRLWKSPPSKPPFPW

7073	15124	A	7757	1	1668	MLVHTQPPEVHQYNHSSAATRSRFRQL QLQLIWGWSQVLPMSAFYQIIQASGLRL HACVTPGAGTHSLPFLPSVGNLPSNKG SRVYCFFAADLFDILLPMLNIYQEFVRNH QYSLQVLANKQNRDFDKLLKQYEANP ACEGRMLETFLTYPMFQIPRYIITHELL AHTPHEHVERKSLEFAKSKLEELSRMIV EGCDILLDTSQTFIRQGTMKNSNTIIVKH EWGRQLHSDWTLSSGPDILCSSKEDRS AWPTAVAVPSADDTQAKAQEKLALASKP FHIRLGTMSSEQS*SLHQRTEQE\GKLPCS GHHRTFTLQIPLNSSAPPLSTAWRTDGG QCPLLCTGFCFCNSHSCSRTWE\PEEEE DDICLPTSQARCNEYVGLRKSIMLVQKK DKKNITCRSLTPSEGLGTIVKVLVFSEI MFNLDFKIVVEPPDAAAFTVLLAPSRQ EKAAWMSDISQCVDNIRCNGLMTIVFEE NSKVTVPHMIKAKVNGCTMSHLDNSLT LPFTDTEQGRSSSWTAGHVKAPCPLHAQ LPLLASLFLQELQAFARMSPYP
7074	15125	A	7758	1	2247	
7075	15126	A	7759	1	3711	
7076	15127	A	776	3	383	QGFRKLPLKTTTGKEKTHSCIVGLGHVN SGKTTTTGHLIYKCGGFDKRTIDKFETEA ADKAKGSFKNWDLKKAERERGITID ISLWKYETSRYVVTIIVAP*LIDFIINMSTG TSQADCAGLIV
7077	15128	A	7760	1	226	SLEFSQSKLQYL SRVKH\DEVSDTENIRIN LAIERMIVEGCDILLDTSQTFIRQWDHEN QQHNHSAKARVGQAVTF
7078	15129	A	7761	41	1065	GRLGPHWSPQREGEAQAWQAAGPEPCP AGRQLRPGEKSSAAPGPGAKLPPTARG QRGRPAALSAGPTEPAEPTPTRNSGWPA SAPPV\PRWGQPLLGVPGEAGRYSA\AP SLSALRFPWWPQDVPV\AWQSATDDAY EALSPSSCAFAMPSSVPAYPSITVTPDEE QNLNHYIQVLENLVRSVPSGEPGREKKS NSPKHVYSIASKGSKFKELVTHGDASTE NDVLTPNISEETTTFTTGFTPEIGKKKHT ESTPFWSIKPNNVSIVLHAEOPYIENEPE PEPEPAAKQTEAPRMLPVVTESSPYVT SYKSPVTTLDKSTGIGDLYRIRRCSSALR
7079	15130	A	7762	3	342	KERSREKTGGGDLQREVAREDRRWRR S\QREDAREDRRWRRSSERGLRRQAVA EIFRERDAREDRRWRRSSERGRPRRQ/RG GGDLQREDAREDRRWRRSSEREMPEKT GGGG
7080	15131	A	7763	205	338	NPYIYSQLFFDKGTKNHGWGRDSL FNKC CSENLISHRKIKLDP
7081	15132	A	7764	1	666	GDPGAGPGDHNRFDCGPQPPPPKCELL HVAIVCAGHNSSRDVITLVKSMFLFYRKN PLHLHMTGAVARNIMETLFTWMVPA VRVSFYHADQLKPQVSWIPNKHYSGLY GLMKLVLPALPAELARVIVLDTDVTF SDISELWALFAHFGVILLRLDRLRQAG WEQMWRLTARRELL/GLPATSLADQDIF NAVIKEHSGLVQRLPCVWNVQLSNHTL AE

7082	15133	A	7765	3	1289	INFPTTSGLDGDPGAGPGDHNRSDCCPQ PPPPRCCELLHVAIVCAGHNSSRDVITLV KSMIFYRKNPLHLHLVTDVARNILETL FHTWMVPAVRVSFYHADQLKPQVSWIP NKHYSGLYGLMKLVLPALPAELARVIV LDTDVTFASDISELWALFAHFSDTQAIGL VENQSDWYLGNLWKNHMPWPALGRG FNTGVILLRLDRFRKAGWEQMWRLTAR RELALSLPATSLADQDIFNAVIKEHPGLVQ RLPCVWNVQLSDHTLAERCYSEASDLK VIHWNSPKKVLVKNNHVEFFRKIYLILL ENQGNLLLEEVFLCPSQPPTIGADQLQR PLPQLDEEDPCFEFRQQQLTVHRGHLLF LPHEPPPPRPHDVTLVLAQLSMDRLQMLE ALCRHCPGPVSLALYLTDAEAQQFLHFV EANGVGIDRV
7083	15134	A	7766	530	820	
7084	15135	B	7767	1	954	MATAATIPSVATATAAALGEVEDEGLLA SLFRDRFPEAQWRERPDVGRYLRELSGS GLERLRREPERLAERAQLLQQRDLAF ANYKTFIRGAECTERIHRLFGDVEASLGR LLDRLPSFQQSCRSPRAARNAVSIMAAG AGTAGPASGPGVVRDPAASQPRKRPGRE GGEGARRSDTMAGGGGSSDGSRAAGR RASRSSGRARRGRHEPGLGGPAERGAGE ARLEEA VNRWVWKFYFHEALRAFRGSR YGD FRQIRDIMQALTFFRGTLDQSSKQE LSLDLSSSEIKNIQVNITYSLRSRDCANFD ILYDIKPF*
7085	15136	C	7768	97	408	MKTKVQPRLTVRVARNCSPKNKAHDNK QNWSWEEDSQITEPSAGLNSSQEAVSAP PSKPTVFNQPLPGEKNPKYEDLLCRNFG AGWWSWLGLVLLPGIKETFS*
7086	15137	A	7769	1694	1866	PLIACSFFLFLFFFLLRQSLGSVHPGLGV QWRDLGSLRPPFGLTQFSCLSLPRSWN
7087	15138	A	7770	106	317	CSAETEREIGRRK*CIQESSSPSLSIKKCP ICKAD*YL*SHLGATADAAPLFQLSSL*Q DLPSYREADL
7088	15139	A	7771	321	449	
7089	15140	A	7772	2516	2717	FVKSKALAFFLSFFFFFLKQSLSVTQAG VQWPVDSLQPLPRFRKRFSCSLSPSSWD YRCVPQCPAN
7090	15141	A	7773	3	282	
7091	15142	A	7774	1	1126	MRPGSLTDVTLEPRSEGGKEKSIPERRNG PCKDPGAAACKLCLTSVLFATNRHMYL HNLLLRQGVSRASRQSALTQSSGTPAMY QCSKTYIYFQGIQVDYQEVTHTGPLSIEG SMLDIKIYIVNRGEHKNVLEEAIATIL KEVLEGLDYLHRNGQIHRNSRKELNDIR FEFTPGRGPKNNDGECDEKHTTVLMRV EQQWDHTERKTQTQMSTEAKVNDTAD GVSQELFSAGLVDGHDVVIACPSRNLRL FIGHSTFPGAQAKTLGIVLDFSFSTSHPT HLNVPRILPLL TISHPITFQAPLNSQLSSCI HPFAAIPASVLASLQPVLISTARDPGTSH YSSALGFIGQIPAYMELSPVIGELCLSK VTE
7092	15143	A	7775	2	1622	
7093	15144	A	7776	1	698	MAAKLVGIEFDPCWVKMLMEKGHQKT REHNYPSEMEQSEKAGVTDNIQGTKAL AGSRQSVANGKNSHCKENVTWLLIHYV QPMKPYEVFWIEFVTHQKATKYLCQLPT TSPDAVFPFGELLAELLKIPFVYSLRFS PG YAIKHSGLLFPFSPYVPVVMSELSDQM TFIE/RGRPTTLSETMAKADIWLIRNYWD FQFPHLLPNVEFVGGLHCKPAKPLPKTL GHGWDRAP
7094	15145	A	7777	1	1584	

7095	15146	A	7778	2	1627	AATGKQALHCIRMSMKWTSALLLIQLSC YFSSGSCGKVLVWPTEFSHWMNKTILD ELVQRGHEVTVLASSASISFDPNSPSTLK FEVYPVSLTKTEFEDIKQLVKRWAE LPK DTFWSYFSQVQEIMWTFNDILRKFCIDI VSNKKLMKKLQESRFDVVLADAVFPFG ELLAE L LKIPFVYRPRFSPGYAIEKHSGG LLFPSPSYVPVVMSELSDQMTFIERVKNM YVLYFEFWFQIFDMKKWDQFYSEVLGR PTTLASETMAKADIWLIRNYWDFQFPHPL LPNVEFVGGLHCKPAKPLPKEMEAEFVQ SSGENGVVVSFLGSMVSNTEERANVIA SALAKIPQKVLWRF DGNKPD LGLNTRL YKWIPQNDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVPLLADQPDNIAHMKAK GAAVSLDFHTMSSTDLLNALKTVINDPL YKENAMKLSRIHHDQPVKPLDRAVFWIE FVMRHKGAKHLRVA AHDLTWFOYHSL DVTGFLACVATVIFITKCLFCVWK FVR TGKKGKRD
7096	15147	A	7779	1	187	SGRPFFFFGLPFLFFFFF*DRVSLLLPRL QCNGTISAHCNLC L PGSSD SPASASRAE LP
7097	15148	A	778	213	500	SKRCLSLGRGASSLEAAEHLSCCPQADG LSRSPQWASAPPRQLLSCPSAGPRGPLQL ARSPGSRRGPVWPPQPPHQHSALT I*AP AQRKRRKNG
7098	15149	B	7780	436	711	DVYKIGGIGTVPVGRVETGVLPKGMVVT FAPVNVTTTEVKSVMHHEALSEALPGD NVGFNVKNVSVKDVRRGNVAGDSKND PPMEAAGFTAQ*
7099	15150	B	7781	26	384	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQVILN HPGQISAGYALYWIAIVDMVPGKPMCV ESFSDYPLGRFAVRDMRQTVAVGVKA VDKKAAGLAS*
7100	15151	A	7782	3	523	FAPVNVTTTEVKSVMHHEALSEALPGD NVGFNVKNVSVKDVRRGNVAGD/SKND PPMEAAGFTAQVILNHPGQISAGYAPVL DCHTAHIACKFAELKEKIDRRSGKKLED GPKFMVPGKPMCVESFS DY PPLGRFAV RDMRQTVAVGVKA VDKKAAGAGKVT KSARKLQKAK
7101	15152	B	7783	32	188	MVVT FAPVNVTTTEVKSVMHHEALSEA LPGDNVGFNVKNVSVKCVIWF LASPX*
7102	15153	B	7784	60	209	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQ*
7103	15154	A	7785	3	313	
7104	15155	A	7786	13	555	
7105	15156	A	7787	3	366	IGY/NPDTVACV/PILGWNGDNMLEQSAN MPWFKGWK VTRKDGNASGTTLLEALD CILPPTRPDKPLRLPLQDVYKIGGIGTVP VGRVETGVLPKGMVVT FAPVNVTTTEVK SVMHHEAQKAK
7106	15157	A	7788	1	513	EAGISKNGQTRHALLAYTLGVKQLIVG VNKMDSTEPPYSQKRYEEIVKEVSTYIK KIGYNPDTVAFVPISGWNIACKFAELKEK IDRRSGKKLEDGPKFLKSGDAIYDMV PGKPMCVESFS DY PPLGRFAVRDMRQ TVAVGVKA VDKKAAGAGKVT KSAQK AQKAK
7107	15158	A	7789	1	1099	
7108	15159	A	779	1	615	

7109	15160	A	7790	1253	2560	SLVMLPLFDMVPGQAHVLLRASQDYPPF GSLCWFVIMRTDSCGWVSIKSSGQKRLL ELIDAPGHRDFIKNMITGTSQADCAVLIV AAGVGEFEAGISKNGQTREHALLAYTLG VKQLIVGVNKMDSSTEPYSQKRYEEIVK EVSTYIKKIGYNPDTVAFVPISGWNGDN MLEPSANMPWFKGWK VTRKDGNASGT TLLEAVDCILPPTRPTDKPLRLPLQDVYK IGGIGTVPVGRVETGVLKPGMVVTFAPV NVTTEVKSVEMHHEALSEALPGDNVGF NVKNVSVKDVRRGNVAGDSKNDPPME\A AAGFTAQVIILNHPGQISA\GYAPVLDCA HTAHACKFAELKEKIDRRSGKKLEDGP\A KFLKSGDA/APLVDMPV\GKPHVCLRSFS DYPPPLGRFAVRDMRQTVAVGVIKSS/VD KKAAGAGKVTKSAQKAQKAK
7110	15161	A	7791	39	362	AEKWARNMPFFDLQMTDQVSLRLTLW SELFGLNAAQCSMPLNEA\PLLAAGLQ AYPMSADRRVAFMDHIRIFQEQA EK FRA LHVGSPEKQCLKAIVLFTSNTWGRG
7111	15162	A	7792	19	384	FISSIKFIMSFNFTSLFHFFISLGQFISSHYI SSK/SHFISFHVISSVHLIFSSHHFMGSSQ LFSSDHFIISCHRFMSYLLRSVQFHFNISF HYFRSSHLITSCHHISSCNQNSSSSQHFI
7112	15163	A	7793	16	450	TQGS HQSPPPGSPHAAHTCCPGRGGEA GGTGSLLCLGQGHTRPAALKDWPGGR PEGHKVRS DPPGRPASSTVQLKGLSGER DGCPLRRGP GPHRAEGSPSRALRPPGTR GNTATRTPVSSGMRAASCQAWRNEVRS LMVQAP
7113	15164	A	7794	1	427	
7114	15165	A	7795	1	330	
7115	15166	A	7796	3	1229	SPPSPLPGLASQDSRPVFPSPTPAMAAVP TQPQSKEGPWSPESPMRLITAPLPPGP SMAVPTLGPGEIASTTPPSRAWPTQEGP GDMGRPWVAEVVSQAGIGIQGTITSST ASGDDEETTTTTITTTITTTVQTPGPCSW NFSGPEGSLDSPTDLSSPTDVGLDCFFYIS VYPGYGVEIKVQNISLREGETVTVEGLG GPDPLPLANQSFLLRGQVIRSPHQAALR FQSLPPPAGPGTFHFHYQAYLLSCHFPRR PAYGDVTVTSLHPGGSARFHCATGYQL KGARHLTCLNATQPFL/WDLKEPVCIAA CGGVIRNATTG RIVSPGFPGNYSNNLTC HWLLEAPEGQRLHLHFKEVSLAEDDDR LIIRNGDNVEAPPVYDSYEVEYPPPPPL QPHYHRVSV
7116	15167	A	7797	110	342	FVLFPTKVYEGERAMTKDNNLLGKFELT GIPPAP*GVPQIEVTFDIDANGILNVAVD KSTGKENKITITNDKGKEA
7117	15168	A	7798	1	335	NFCTREDHQYAPLDPKHGHLPPRMPPSE RLMAAEAAFYSPPYHDRPTNSEGWEHT GLYESFRAKLRSRRKGPEKRNSGPRSRSR NRKSRGRSSSRNSRSS*SSGSYSRS
7118	15169	A	7799	110	409	
7119	15170	A	78	226	481	CLAHSRHSINISTCTGAEGHESESFSYWG TRGPSATMACDGLTRTGHSPPSRARSPP LLCARSLTKAACQ*AVPVTWCHCWRPQ G
7120	15171	A	780	140	459	RSSLLPCLGLWTHLPVKVRDSLGEAFR GEKADMPVLYDRLLKLMEMLYFKSGTI PMFYG*APRRVYIIGERIHYCGYSVLPMA VEQDVLI AVEPVKTYALQLAN
7121	15172	A	7800	40	621	

7122	15173	A	7801	1	338	GTSFYLYRKGYLSLSKGVPM SHYAGTLL LLLAGVACLRGIVRWTNPHYRKMTIP* ASHRNQSSKYPRHVANYNCDFRSWPDD FHCDEPITRNESQGGPIRRSVHTASPKPM
7123	15174	A	7802	1	390	ILDCHTDDSGTYRAVCTNYKGEASDYAT LDVTGGDYTTYASQRIDEVPRSDFPFLT RTEAYAVSSFKKTSEMEASSSVREVKSQ MTETRESLSSYEHSASA*MKSAAL*EKSL EEKSTTRKIKTTLAAR
7124	15175	A	7803	3	235	VNSAEEAEEQANTNLSKFRKVQHELDE/ AVALPHFDLLIQLVLHLADEAEERADIAE SQVNKLRAKSRDIGTGGLNEE
7125	15176	A	7804	2	561	MRPHRLDEAEQIALKGFFKQLQKLEARG RELENELEAEQKRNAESVKGMRSERTP SKELTYQTEEDRKNLAAACRTLVDKLQL KA\KAYKRQAEAEQSPPTNL\SKFRKV \QARAGLRAEERADIAESQVNKLRAK\SR DIGTKGLEMKELAFATSLNLAPPLGRCP ANAPCWSLCSNFLGREAE
7126	15177	A	7805	3	303	GRRPPALIDSRSPSPASPPTQ*CRPPSFPGP APPPRLWLAPPFCPPPPPHGYGPPFARKR RGAALGLTRVLPSPGSAVRRSPGPGPGS ACDKVFRTTSR
7127	15178	A	7806	190	389	RRTYTSHLLACLRLQGLAFSPRLECGGKIR AHCSLQLYGSSDPPT*APQTAGTKQHNQ RIAQCNDN
7128	15179	A	7807	3	271	FFLRQSHSVTRLECTGAI*AHCNCLPGS SDSPASAS*VAGITGMCHHARLIFVFLVE TGFHHVGVQAVLELL/NLMICPPQPPKVLG LQA
7129	15180	A	7808	610	923	FYLSEEAFFFFFETES/HLLSPRLECSG MMSAHCNLRPLGSSDSPASAS*VAGITG GHHPAQLIFVAF/MYQPGFCHVGQAGQQ LLA*VICLPQPPKVLGITGA
7130	15181	A	7809	487	796	LSIFFFFFEGRGAIVANVSLNFPKSKPP PSLSKEPGTTGAAPPREIFFPKKTRLGFA LHPGSPPPGPWAPLWSKGEKVILKKH KVGRGRGFSVPSPFF*KPPPSLSKEPGTT GAAPPREIFFPKKTRLGFALHPGSPPPG PWAPLWSKGEKVILKKHKVGRGRGFS PVSPFF
7131	15182	A	781	595	1060	ARFLPKYQSPTGPHPSFNAFLSLGAMCV LPRPNFHSLAVRSPVPGGPAPLVPKGE* EGLGVTSQSRPDCPSPMSTPRCRS*LRP AAGRGCSPLLGGCPWTVTHPLRTKAGC TLSWAQPPVVLPGGEGPRCASPVAVL GFSPCALCHLDPPVK
7132	15183	A	7810	1	340	GTSQVLTLTIAEV**NLG*VGCK*CKHTE AKRMPCAEDYLSVVHEQICVAHENTPVS DRVPIRCPESLAIRLPCFSALEVDETYGD* EYNAAFTLHADICTLSEKERPIKKQ
7133	15184	A	7811	3	337	IESSLHQVESMHGAGNAKKNWQ/RIQEH FFFATFHPLKDYCL/EGTNLVEADNQA WTDVQKKIIPWNSRVSDLDLLELLFQDR AARLGKISIRLIRCGPSLHSDKPTNFRE G
7134	15185	A	7812	3	926	YGEENLKTSICTFLAVLSHLDIITQNIPEK KLILKQALIVVLQWCFNHNFSVRLYALV ALKKLWTVCKVLSVEEFDALTPVIESSL HQVESMHGAGNAKKNWQRIQEHFFAT FHPLKDYCLETIFYILPRLSGLIEDEWITID KFTRFTDVPLAAGFQWYLSQTQLSKLKP GDWSQQDIGTNLVEADNQA EWTDVQK KIIPWNSRVSDLDLELLFQDRAARL\GKSI SRLIVVASLIDKPTNLGGLCRTCEVFGAS VLVVGSLQCISDKQFQHLSVSAEQWLPL VEVKPPQLIDYLQKKTEGYTI

7135	15186	A	7813	3	360	ATCSSDQSVKVWDKSESGDWHCTASW KTHSGSVWRVTWAHPFEGQVLAFTFD RSSAVWDEILSESRDNL*GHTHWVKRTT LEDSIVSATCV*SFLSHVGIMLLSCGTFPP ACICGVFP
7136	15187	A	7814	9	305	SHLLRSLRQENRLNPRGGGCNQPRSGHC TPAWATRAKLHLKKQTNKMLANLIQOH IKKVIHHYQVGFTPGMQG*FNICKSVSVI YHINRTHKNVAAAA
7137	15188	A	7815	3	217	AASTMPMSFEWQRQ*RFPPFYTLQPNVN TRQKQLTA*CSLVLSLCRLHKQSSMTLIK TRLTSDSITVMLDC
7138	15189	A	7816	15	335	QHFWERFHVTKDRINTVERQETDWKIFA TYLMKKV*ISRKCYNYSKLVKKQLNR KWAKEKNKQSQKKKQSGQ*TKTVQPQ* NKRNNAN*RYYLSPISLAKSNKLNLY
7139	15190	A	7817	1	331	GLIEILVIYVSDTPVK*DV*SDIFEQ*AYG KIDGGNDVCDLQSEGTNTKMKNNEEM MIGEAMDETGHGGETENEGISTKTSKPD EAETNMLIAEMDTFVCDTVEMSTEG
7140	15191	C	7818	51	200	MSTPXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXS*
7141	15192	A	7819	3	219	MLAGCSRTPELR*STHCSLPKCWDYRRA HNAQPFLT*RNSETRRSL*F*IMWLPLE FLGFPLESQQGCTA
7142	15193	A	782	71	237	EQPGMVTHTCNPSTLGGRGGWIT*DQEF KTSANMVKPCLCWRYKKLAGHGGAC L
7143	15194	A	7820	1	358	VHCLVPDLLQSNNNPCYWGVMDKYAA EALLEGKPEGTFLLRDSAQEDYLFVSFR RYSRSLHARIEQRNHNFSFDAHDP*VFHS PDITGLLEHYKDPSA*MIFEPLLSTPLIRT PFCL
7144	15195	A	7821	260	481	LILKFV*NHKIPQIAKTILSKENKAGGITL PDAKISCKAVVTKTALYWHNTRHIEQW NRRIANTEINPNICNQLI
7145	15196	A	7822	1	306	VKAKAKKLQIQIQLLELYCSYDMQFED FAHRAMDYFPKIENNLSTRMDHMOVSS CIENWHQLESLSLLILHNMPHYEEDDEFE GLRLDMVQ*RLTSCDAG
7146	15197	A	7823	3	396	SSLSSLSSSVSVTFGFGTFPSAVSSIPDG GLALAFSSSGLSTSFSSP*SHSSSSPPVPP LSSDTRRSTSPADMAAPSAT*TRRSTAPS NPFPSLAAPRREKGGNPPTNERRKLETPI PGRRRQRRQR
7147	15198	A	7824	3	344	HEHECYAKVLYELKPVGEPPQNVSKQN CDLFEQLGQYEF*NALLVRYTKNPQGT TPALGQVLRNLRKVSSKCKHPKATM PCAEDYLSVILNQLCALHDSRAVSDRVS RCWT
7148	15199	A	7825	1	413	RAGYRQKWGSLATVIGQLGLPSGGLV WPQRRREGHRNAHCSELVDDLHVITQ NRANHRPRCGSLLSELKFAPLALQPGR QSKTLSQKKNKQT*TTKNTKKQPGSVA HACNPSTLGG*GRQITLPSGVRDQPGQH
7149	15200	A	7826	37	363	ASDWNQDRARGRGQGGCETRDSESQ GTNGQPPAEASKDSWSSGGKMAR*APSP QRQKAGYPGSPSPQAPASMRSLGPPQF QEPPQALFPLEVPIPSPHTRNKMAR
7150	15201	A	7827	3	354	HERAFLNNNSCFL*AFDPYQCDRYLFKIV TDVYYTPYVLIYYI*APLPLLQLTHTHF LSLFFL*VLNIYALVYLSTALPLSLFISISS PRYSLCLFFHFLSLMLFLSSLSMYCSHY
7151	15202	A	7828	2	269	ARVAPLKGVEQEVVRHEGEVTKPEKEK GEETRIENGKLIVVSDSCGRVYVSGKIYY PM*AYNDGLILERYQIMPIDIIVSYVFIMI

						CLD
7152	15203	A	7829	2	350	KDIRVGHRQNRALPPQASPTVAPGQPT ALPPTGHSOPTMGWPSRSLQLITAPTS ASPTVVKLPSGACWPLSSTFASSPLSLVQ *P*NSDSHDATSAMAPSSSRECLSPWPA R
7153	15204	A	783	236	404	EDGHHSGLHSKQKQPAWPSMVHTCN PNTLGGRRGGWIT*GQEFETSLTNMEKPC L
7154	15205	A	7830	2	376	SHCLEPKDIRVGHRQNRALPPQASPTV APGQPTALPPTGHSOPTMGWPSRLYQLS LITAPTSASPTVVKLPSGACWPLSSTFAS SPLSLVQ*P*NSDSHDATSAMAPSSSRE CLSPWPAPRA
7155	15206	A	7831	176	379	SVTDHPIYNCNLSPSPNPGSDPSDPVLPF VVMTDYLLP*CVICCCFLSDPPHCSHPHV GGSFFGIN
7156	15207	A	7832	1	344	NSGRVSGNLSPLPPGPPGPRPLEEATP VLLSQGIPEREDSFRNLRTDLYIHQLKS* DSPEISLQGEETPRHSDKHNS*NAAS EGKGCFFPSPTMEVEIASHDEEDVIHS
7157	15208	A	7833	355	535	PNRPITGEVTTKNLTKKSLRPDGFDTDFC *TFKEGFIPITLLKTVKEGLHPTFLYEASIT L
7158	15209	A	7834	61	250	RSRLCAPVRESHTYLIMPLGCC*FFLYYI FFGFFSVVFCLLSFYSPFVSFVSFV*F WVF
7159	15210	A	7835	3	66	DAWEKKICETEDWLFHQRISSRMRK NKEQLQDV*NTIKRTNIRIIGVIKEKREK RKLI*EIMAENSPNLGKMSIQVYEAQRS PYRIHKKTSPPKHMIKLSKAKSRR*IRG
7160	15211	A	7836	3	146	HMVAGAVAGILEHCVMPIDCVKTRMQ SLQPDPAARYRNVLEALWRIIRTEGLWR PMRGLNVSASCAGSAYALYFACSD*LTQ LPAIAMCWWRPSGGL
7161	15212	A	7837	2	329	VASGRRKNLLSKVTGLEVPEGSTPDRPC SGRQSLNPPVTSFPNPSQRNRTPPPTTRQ MATL*EALHGSHLPPGRAERCTSSPGPR TTRPQVSDRRAQSPTSYPVGPGRP
7162	15213	A	7838	2	356	EAGAHT*ITMKNQRLKQTVDDTVEVSD FTVSRNAHEAFNTAFTTLAACAASIG*V LLYLTLTCPC*CKTKRQNNMLHQSNA NSSILRPGPASDASADERNACARKRAVL LEPLKD
7163	15214	A	7839	3	264	
7164	15215	A	784	2737	2915	KNVVHTHQGILYSHKKEQD*LGVAHT CNPSTLGGRRGGWIT*GQEFETSLTNMVK PCLY
7165	15216	A	7840	42	226	
7166	15217	A	7841	1	507	LQLEAEEQRKQKKRQSVSGLHRYLHLL DGNENYPCLVADGDVISFPITNSEKTK VKKTTSDLFLEVTSATSLQICKDVMDALI LKMAEMKKYTLENKEEGSLSDTEADAV SGQLPDPTTNPSAGKDGPSLLVVEQVRV VDLEGLSKVVYPSKADLAATAPPHVT VR
7167	15218	A	7842	51	340	PILVYRPDVPD*VAKDYASFRNYT*GPLL DRVFTTY*LMHTHTQTVDFIRSRHAQFGG FSYGKMTVMEVEDLLDGLMDESDPDNLN FLKSFHA*KIAY

7168	15219	A	7843	44	1352	KMLYKNFIMQSQELTALWEAKVHPAML GLDELGRSGCGHCTQADLRFDAAGRD PGQDNDNRNTAEPAPPPPRVMAAAAL RAPAQSSVTFEDVAVNFSLEEWSLNEA QGCLYHDVMLETLTLISSLGKRQTLHTR ERPYESIECGKAFAEKSSLNHRKVHSGA KRYECNECGKSFAYTSSLIKHRRIHTGER PYECSECGRSFAENSSLIKHLRVHTGERP YECVECGKSFRSSSLQHQRVHTRERP YECSECGKSFSLSRNLIIHQRVHTGERH ECGQCGKSFSRKSSLIHLRVHTGERPYE CSDCGKSFAENSSLIKHLRVHTGERPYEC IDCGKSFRHSSSFRRHQRVHTGMRPYK* SKFWKFSFCPGFLLQGQRVHTGSRCEC DKWGIFFS*NASFFT*KSAPTEEVPECN ECEKAFSPLSLVT
7169	15220	A	7844	2	353	NLLYQFWIHTEVINNLGPLELILNTRSHH RVHDGRNRYCIDKNYAGVLIWDKSFGT FEAENEKVYVYGLTHPINTFEPIKVQFHH FSIWTTFWATPGFFNKFSVIFKGP*WGP KP
7170	15221	A	7845	3	386	TVRVCACDHHGNMQSCHAEALIHAPAGL STGALVAILLCIVILLETVVLFAALRRQR KKEPLIISKEDIIDNIVRYNDEGGGEEDTQ AIDIRTLMNVPPI*DTHLRRCFAP*TSLYY HRATPTRSCYHP
7171	15222	A	7846	151	352	YCCTYYIFVLFIP*SSCGLTLIFITCILFGSI SFFLFTTIVFSIIIVTTFKFRLLYSIIFLSYLL C
7172	15223	A	7847	2	265	VKPSP*PLTGALSALLMTSGLAM*FHFHS ITLLILGLLTNTTPVQKGLRYGIILFITSE/V FFFAGFF*AFYTPA*AYPQLGGTAQQDT
7173	15224	A	7848	1	156	GIRHEAYHIVKPSP*PLTGALSALLMTSG LAM*FHFHLKKKKKIGSSFIavg
7174	15225	C	7849	512	778	MTSGLSHVDFTSNSITLPHTRAYXTNLT NHIPMMARMLTRRKAHTKGHHTRTCSK KAERYGDKSYLFTSGSFFSSQGFILPFLP LQA*
7175	15226	A	785	361	710	DLFWLF*MDKFLDTYTLPRLNQKEVK
7176	15227	A	7850	15	613	LKTTHLLFQVSVGQESRCGLAKSSGSKS LTRVKVRGQPRLWCHLKAQLGKDLLLS SLTWLLAACGSSPVVGLWASAPGLLLAS HHPRFSAWVFKVAHNTAAGFMSTGK QEG*RDKITAKQKFASYNLISEVTTHHFL PYSIYEKQVTRSSPHTKERDSPRG*LSEG KDHWEFPQKLPATDVIALFYENKHQTH YIHL
7177	15228	A	7851	66	355	KSMTDGHQITVTNIRQLPARTLYTHWPR EFSP*SPPLERMHTRGARREARQKAPRIR DKRRGKSRVHCLGEELANGGGWDRIRW GKGERQGDGRV
7178	15229	A	7852	3	358	HASAHASGQDDQLERDHEN*DRFVRQ VVGINNYRISEESGHPYNIFGKIFHDCAD LDTSEH*LCKCDSFDKTLKPTINLVSYNR NFA*TNIDENFRCGKSPSYSSCYSKHEEL HNGM
7179	15230	A	7853	79	413	LSKGTGRKRDGLTLPAPHPAKTDPAAAP QQQPGVGVRRSSPPCPG/QREQQSAGSP GWMGGGCPCPV*PLKGQNPSPSSLGG SKGSFFSPDPVARGRRVRGEERGQVR E
7180	15231	A	7854	171	173	LTAEACLSFSPPLPSSLGVSOGPHHGGLG PAHPSALPQPPGCIFEAAWPPRALT*PLSS PLTPPAPGHCRIRRGEEGASAAFPGLGT GLVLSFEDDHLRLD*QGAHTQSQPGASP QTLCCFRGLGHAGELLTPPTVQPGLFPE SASKWPQLFGPRILGPPIKGSPTTKAWPP GVCGQQLPLVKGHGP*PSPASGRSCEV SVPSCPVVI DI GWGCL APAGCP SOLHP

						SVPSCPVVLPGLGWCLAPAGCRSQHWR D
7181	15232	A	7855	27	263	FHCFISNF*VANRSSLLIDFSVGLLKCKS FIFFNAILHYCLMMVCEYDSLFLSYMF LLIFFYFYIFYLLFIHPY
7182	15233	A	7856	92	354	VLNSI*SGNQGKSYANVYRLLYLDPIPKI YAEAYTP*NVNSTNLETSPKTIQKFPED REFKNDFFEKTNGDRETGAHFPLFL V
7183	15234	A	7857	464	2848	GETGMSTALHTTVAMRCPMLGGGGGP TYGPPQPWGHDPVHIMQHHLPIQARLG SIAEIDLGVPPVPMKTFKEFLSLDDSD ETEAVKRYNDYKLDfRRQQMDFFLAH KDEEWFRSKYHPDEVGKRRQEARALQ NRLRVFLSLMETGWFDNLLDIDKADAI VKMLDAAVIKMEGGTENDLRILEQEEEE EQAGKPGEPSKKEEGRAGAGLDGERK TNDKDEKKEDGKQAENDSSNDKTKKS EGDGDKEKKEDSEKEAKSSKKRNRK HSGDDSFDEGSVSESESESGQAEEKE EAEALKEKEKPKEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEII SLCK RYPGFMRVALSEPQERRFFRRGWVTFD RSVNIKEICWNLQNRL/RECELSPGVNW DLTRVRNNGITQHKQIVRNDIKLA AKL IHTLDDRTQLWASEPGTPPLPTSLPSQ NPI LKNITDYLIEEVSAAAAELLGSSGGA PPEE PPKEGNPAEINVERDEKLIKVLDKLL YL RIVHSLDYNTCEYPNEDEMPNRCGII H VRGPMPPNRISHGEVLEWQKTFEKLT P LLSVRESLSEEEAQKMGRKDPEQEVE KF VTSNTQELGDKWLCPLSGKKFKGPEFA RKHIFNKHAEKIEVRKEVAFNNFLTD AKRPALPEIKPAQPPGPAQILPPGLTP GLP YPHQTQGLMPYQPRPILGYGAGAVR PAVPTGGPPYPHAPYGAGRGNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDLD APDDVDFF

7184	15235	A	7858	1073	3541	GETGMSTALHTTVAMRCPMLGGGGGP TYGPPQPWGHDPVHIMQHHLPIQARLG SIAEIDLGVPPVPMKTFKEFLLSLDDSV ETEAVKRYNDYKLDFFRRQQMQDFLAH KDEEFWRSKYHPDEVGKRRQEARGLA QNRLRVFLSLMETGWFDNLLLDIDKAD AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLGDGE RKTNDKDEKKEDGKQAENDSSNDDKTK KSEGDGDKEKKEDSEKEAKSSSKRN RKHSGDGSFDEGSVSESESESGQAE KEEAEEALKEKEKPKEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAE LCKRYPGFMRVALSEPQERRFFRRGWV TFDRSVNIKEICWNLQNIARGARSLNRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRRVNRNINGITQHKQIVRNDIKLAAKLI HTLDDRTQLWASEPGTPPLPTSLPSQNP LKNITDYLIEEVSABEEELLGSSGGAPPE PPKEGNPAEINVERDEKLIKVLDKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEEKLTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFV RKHIFNKHAEKIEEVKKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQIIHVPVRVVL PPGLTPGLPYPHQTPQGLMPYQPRPIL GYGVPTGGPPYPHAPYGAGRGNYDAFR GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDF
7185	15236	B	7859	145	226	MAVNCSEMRLKSSWNGCAIANEGDCHL EATSICSSTSFMDMLGEFRHCESILLAST AX*
7186	15237	A	786	2	424	
7187	15238	A	7860	136	1559	ILTMREIVHIQAGQCGNQIGAKFWEVIS EHGIDPTGYHGDSDLQDRISVYYNEA TGGKYVPRAILVDLEPGTMDSVRSFPFG QIFRPDNFVFGQSGAGNNWAKGHYTEG AELVDSVLDVVRKEAESCDLQGFQLTH SLGGGTG/SPGMGTLALISKIREEYPDRIM NTFSVVP\SPKV\SDTVVEPYNATLSVH QLVENT\DETYCIDNE\ALYDICFRTLKLT TPTYGDLNHLVS\ATMSGV\TT\CLRFPGL QLNADLRKLVS/VNMVFPRL\HFFMPG FAPLHQPVESQQYRGSHKCRELTQQ/VSF DAKEH*WAACGPPATGRYL\TVAAAFR GRMSMKEVDEOMLN/VQKN*QLTLWE WFPQQCSRTACLFTSQPRGSRWAVHLS LGNRHSHSRELFQSGIFGSSFTWPCFRRK AF/LFHW/YTQGEHGHEMGVSTEG*EA TLNDLRL*SIKQLPRMPTQEEEDFGEEA EEEE
7188	15239	A	7861	2	304	ARGLCPLGYTGLKCETDIDECSPCLNN GVCKDLVGEFICECPSGYTQORCEENINE CSSSPWLKNGICVDGVVCCCTFV*GFCI FKFSCSSCPLYTI
7189	15240	A	7862	1	345	GTSGETSRFL*DVLQMNDFGTRWRFYAT VIYQKPQLKSLILE*RETWVLGTDGLQ TKEEKDPRLRKTLLVYVAPLLVLGSDVL EALSGAAPRLRLKDAIRDQARIGRAERT VL
7190	15241	A	7863	2	343	VSAYPRRENSLAGQRRHHLCHPLPP AGGARAPQPQPQLLGARPGPGRCRM RRRPQAPRAGRGAALARAL*PLSSTASR RGACPGAAPSDSPEDPASDHGHSPLGG RC

7191	15242	A	7864	1	338	QIDEIVTETLLTEAERGAQVYLTTGYFNL TQAYMDLVLGTRAQYQILLASPEVNGFF GAKGVAGAIPAAAYVHIERQFFNDECSL* QSRVQLSEYWRCSGRSLSMFVRHDI
7192	15243	A	7865	174	361	
7193	15244	A	7866	1	1259	VRCRPVRNSRVDPRVRMAAVFLVTLYE YSPLFYIAVVFTCFIVTTGLVLGWFGWD VPVILRNSEETQFSTRVFKKQMRQVKNP FGLEITNPSSASITTGITLTTDCLEDSLLTC YWGCSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYQYFILSSDIPSTEN*T SYG*SVANLLIILGILEACLLQNKHSPCI RTCSVYRISVSGTGFAFRLIYPLALIIRL LMDKVPLTY*SFLGY*KHVYCFRISTPQA LEDALWSEYLYQEYHFIKDSKEEYICQ LPRDTNIDDFGTVPRSRYPLVALLTSLDE DDREIYDIISMVSVIHIPDRTYKLSRILY QYLLLAQQGFHDLKQLFMSANNFTPS NNSSSEKNTDRSLLEKVLSESEVEPSE ENSKDCVVCQNGTVNW
7194	15245	A	7867	106	387	
7195	15246	A	7868	2	766	
7196	15247	A	7869	149	420	CGTDKTFWSTVRENLSYSELLSRR QICKNKNDPPGDRD*FDYSRSDYEHSRR GRSYDSSMESRNRDREKRERERDTR KRSRKSP
7197	15248	A	787	1	462	
7198	15249	A	7870	1	443	GQDSRSRDNGPDGMEPEGVIESNWNEIV DSFDDMNLSESLLRGIYAYGFEKPSAIQQ RAILPCIKGY/DCDLYETLITQAVIFINTR RKVDWLTEKMHARDFTVSAMHGDMQ KERDVIMREFRSGSSRVLITDILLARGID VQQVSL
7199	15250	A	7871	2	363	ELDTLCDLYEP*PSPSHFINTRRK/VDWLT EKMHARDFTVSAMHGDMQKERDVIM REFRSGSSRVLITDILRIGRGGFRGK VAINMVTEEDKRTLRIETFYNTSIEEMP LNVADLI
7200	15251	A	7872	3	449	NLQEWKLDTLCDLYETLITQAVIFINTR RKVDWLTEKMHARDFTVSAMVCLPAA SLLWVCPSEVSYLKPGFLEPRCLPGLLHI CFLFQHGDMQKERDVIMREFRSGSSRV LITDILLVSRGN**QRQGGSKVIPSPRG HQCLSGK
7201	15252	A	7873	236	533	
7202	15253	A	7874	1	366	AEIRDRSPCGELHVEREEWKLDTLCDLY ETLITQAVIFINTRRKVDWLTEKMHAR DFTVSAMHGDMQKERDVIMREFRSGS SRVLITDILLVSRGN**QRQGGSKVIPS PRGHQCLSGK
7203	15254	A	7875	5	1285	FLRIMSASQDSRSRDNGPDGMEPEGVIES NWNEIVDSFDDMNLSESLLRGIYAYGFE KPSAIQQRAILPCIKGYDVIAQAQSGTGK TATFAISILQQIELDLKATQALVLAPTREL AQIQKQVVMALGDYMGASCHACIGGTN VRAEVQKLQMEAPHIIVGTPGRVFDMLY RRLYLAPKSIRMLVLNEADEMLSRGFKD QIYDIFQK\LNSNTQVVLSSATMPFD\VL EVTKKFMRGP\IRILVKKEVELTLEG\IRQF LHQPWNEEEWKLD\T*CDLYETLITITQ AVIFINTRRK/VWDWPHPRKMHARDFT VSRHAMGDMGPKGNETVIMEGSFRSGS *QSF*LPT*PCWARGIDVPARFSLVINYD LPTNR\ENYIHR\IGSTVDRFGRKGVAINM VTEEDK\RALRTL\GASYNTSIEEMPLNV ADLI

7204	15255	A	7876	3	378	MDTTPLSYSES*SDEYLVNTM*LQDAFC RGLVKPGLNVLLKGPINAVIDVNGLKQC LA*FKRYLECL*RLDVTLCVPV*IGGSDA PLPHNKDHKAADP*DYFQR*MSFYRQA HAAMLAVLPRHH
7205	15256	A	7877	2	397	RESESCAAADTPAETLSFHGDWEIEVF NRDLGSTYPDDLAL*MEDVDFEEEEEYEE* GYD*GWVLYPQEGVIGNMEGPDYS*VTF ALHSSSVYRVSLDPKTYTLAVTGGYDD GAFVWLLTYG*LLFE*ASHE
7206	15257	A	7878	3	399	NSQVLLDSPIQLSKITENYECITELSGLLK REQSSTVNASNLENDEARLKAYLENRSE IDSLKTSNPIDL*EASISQAGSIN*SRF*SS GMNKSVDVRIDNFNGSIGDRILLTAANVI LAWCRLYGMLRQNV
7207	15258	A	7879	1	424	PVLRVARERSLPGPQEGPHGRASESASPL APSIAPSPGPPALSASHIMGSQALRSPET PW*SPWDPPAPLDLVSPWQFPFGPHASA TP*RSPLGLQTPQAPGSWAPHVPATPQA SGLPAPHVTETP*ASS*LAMPVPETP
7208	15259	A	788	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGTG AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
7209	15260	A	7880	156	312	LFSLACRYHVYPTCRNTSGILGFTVSVVT NAIPFIS*LSSFYIYFLYNFG
7210	15261	A	7881	15	394	FGCLLQGRRPLKSHSPWQGPASGRPAQ GKHKNR*RGQNPSNLSPAPTTPWPGIK CPLPRAGPSLSSLLPGRVLCARPEFPLHG RGLEPSASLLPSALAPSLRGLKGTERR LKADQAWGGWKE
7211	15262	A	7882	2	102	NKILIKTNSRKK*KIE**RDNNQSNNNKN HNK
7212	15263	A	7883	3	397	NFLYTFLYFPNFV*SAHCF*NQKKKNKY FLLREKCLLNCPHLYVAFYVYIPSFNLS GC*YLPSCSIFYVFIPLSHPLLFLLCFSL FSLPFFLSLFCFPFLAFLFHPSFILLDSSA CLLCISCFHL
7213	15264	A	7884	190	339	DGKGLLQVCLPLQDVYKIGGIGTVPVGR VETGVLPKGMVVNFA\PVNVTT
7214	15265	A	7885	377	1073	LQGHRLRTGAVLIVAAGVGEFESWYSPR MGRPESMPFLAYTLGVKRLIVGVNKM DSS*PPYS\QKRYEEIVKEGSTYIKKIGYN PDTVAFVPISGWNGDNMLEPSANMPWF KGWKVTRKDGWASGTTLEALDCVLP TRPT*QSPCGLPSSRDVYKIGG/ILGTVP VGPSGRLGVLPKGMGGSPLAPVNVTE VKICSEMHHGRF*VEALSWGDNVGLSM FQGLLFCSK
7215	15266	A	7886	2	415	SVGDPCPSTASVDQCTIVP*PMEGPLLY RRCIEGVGGIFLWDPQPSSQHPGATPST GEPGFVVHQLDLSHIQQPAAVVAALNN HKPPVRS*PPSATPEAFT*FSKCDDLDEE LSLLRYCHAFSEC*HDIRPSHIHP
7216	15267	A	7887	1	360	TERFGM*GGEAVCLYEPPVSELLRRCGN CTRESWVVSFYLSADHELLSPTNYHFLS SPKEAGGLCKAQITAIIFQQGDIFVFDLET SAVRPFVWWQVEAPVDYLPSCFVMIPT LYCSP
7217	15268	A	7888	152	378	WEGGGSGTILARRFWDLQAYRPHAQVP GFLR*SHLMAVGHAETDLTALTMLILT PEAWQLHTILYLSGLLAMLP
7218	15269	A	7889	302	564	YWLFDYDFMIAEKILNGYFCCCC*DRSCP VAQAGELWHERGSLQRPFGVKQCSYF SLLSSWDRRHVPPHLANF*TFFCRDRVSP VLP

7219	15270	A	789	38	485	APSPDA\MGHFTTEEDKATIT\SLWGKVVN E/DAGGETLGRLLVVYPWTQRFDD\SGN LSSASA\MGNP\KVKAHGKKVLTSLGRC HKSTWDDLKGTFAPQDVNCTCDKLHV DP\ENFKLLGKCCW*PVFGNPIFGKEFTP EGAELPGQKDG
7220	15271	A	7890	1282	4603	GSLPCLEHVSLNPLSIIPDYRTKVLAQ FGERASEVCLDDTVTEKELDTVEVLKA IQKAKEVKSKLSNPEKKGGEDSRLSAAP CIRPSSSPPTVAPASASLAPQPILSNQGIMF VQEEALASSLSSTDSTPEHQPIAQGCSD SLESIPAGQAASDDL RDVP GAVGGASPE HAEPEVQVVP GSGQIIFLPFTCIGYTATN QDFIQRSLIRQAIERQLPAWIEAANQR EEGQGEQGEEDEEEEEEDVAE
7221	15272	A	7891	1	286	SPPTVVPASASLPQPILSNQILGDE*VIL VS*ACLLARPARKRGCAVPSGAEARDT QERTPPARAPGDAELGVRSWENSSTRCF KSQKNIPTP
7222	15273	A	7892	3	417	PPPLWFNQDPHVESKGLAAGRVPVSTSQ GRTQFRGSAPPKDP LRTGPSANRRVP HTFQPDISFPGSPKPPS*DRPHPNPSLRSP LVSHSVHNQAGR WAKVQATARERKSDT KSIWLWRWRRILKRTRSNSLYTLHG
7223	15274	A	7893	2	236	KKSNLRMLAEHGGSHL*SQLCRRLRQEN HLISGGGGCSESTSHHCTPAWGTE*DFVS EKKKKKLTGWPDPSGRIKWWC
7224	15275	A	7894	3	254	LECNGTISAHCNLRMLVSG*FSRLSLPSS *DYRRPRLRPANFCILVEMGFHHVQGAG LKLQTSGLDPLSLPKCWDYRRAHPLA
7225	15276	A	7895	1	185	RQSLALSPRLECSGAIHAHCSLEPLGLRQL CCLSLPKC*DYRHEPLSLACFLFYPPHEH LT
7226	15277	A	7896	1	182	KLVGLEPVSTYSIRVSAFTIVGNGNQFSN VVKFTTQESG*IQFLSLKCFLYLTPFFSF S
7227	15278	A	7897	4	329	AGEGGLQALILRDGAWPQPPSGD*QVKG LEPLTPAPAGSSQGP GPPIASSPVGQS KTD TATTTKVGPVGGGQPAPMHQQLPP SPGDPAEDAHTWGERSLSGMKGK
7228	15279	A	7898	115	408	HWKERGSLYP A*TGGSACVLPQGQHLP RPQATPPTTAHLVPPQHCRPGPAAPAP* QGMSTPTTATLFSRLQGRQLPLMGAPSG QGPWLYCRGEGPRA
7229	15280	C	7899	128	253	MNSPDWELWQDN PQDSCVLIPRTCDH AASRGRRDSSGVIE*
7230	15281	A	79	421	899	IASLFLIVKVEEVSQTAIWKKKKCDEYIP GTTSLGMSVFNLSNAIMSGILGLAFAL ANTGILLFLVLLTSVTLLSIYNLLLICSK ETGCMVYEKLGEQVFGAPQGKFVIFGAT SLQNTGGKKNMLFFT*LEYTHHTSFESK WLFVRLLLLSRSEINLLFI
7231	15282	C	790	128	274	
7232	15283	A	7900	856	1071	SFALVAQAGVQWHDLGSLQPLPPRFK*F SHLSLPSSWDFRCPEPYWLIFVFLVETGF HHVDQAGLELLTSGD
7233	15284	A	7901	87	395	RSGGGVPPRNPPPLGGRGGGFPQGPQFI TLSPKGKPLFFLKSNFPG*WAPPLKPPF KGG*TKKIFLTLEGGVPINGNFP PPPPGG KNFFSKKKKKKKKK
7234	15285	A	7902	28	403	GGTIYGNVVPATVPAGSPGVPVAVGGQP GPLPVL*RTSPETCPPLGVTTGSLCLAPY HLSFGGHGLPGTPREAG*REGGNSLQL QLPNPKPFLPSRPEDPTWSPSSQGEELRR RKVRCDLKS LT

7235	15286	A	7904	1	609	SHKTNVQQCYCYCGGPGDWYLMQLQC CKCKQWFHEACVQCLQKPMFLGDRFYT FICSVCSSGPDYLRPLQWVDIAHLCL YNLSVIHKKKYFDSELELMTY\NENWD RLHPGELADTPKSERYEHVLEALNDYK TMFMSGKEIKKK\KHLFGLRVRPPVPPN VAFKAKEPEGTSHEFKLKGRKASKPIS DSREVSNGI
7236	15287	A	7905	440	608	CVKFLDTSQADTPKSERYEHVLEALN DYKTM*VDLFYVSL*GRHLVSIRNNGIV
7237	15288	A	7906	49	796	SHFIYFLTIVISSLVNEVC*SSPIFLMNQ VVLIFWLLL,YELCCRIFSHFVCLFTM FINIVTF*F*YLQIIVFLYG*LGFFYGYVK NIVNILLHAL*FCLSHFGFPLGTIFNI*Y EVIFLL*G*SVVPALFIEKKQKQKTFLL LL*SAFSVVYQYMQRSFMGSLLYWF SCANVHSLHYFMIFKKIFDI*YQSPFTSLL FINSLWLFLVLCSSLYLEIAYHVSLLKAE HIENLIGVAMNL
7238	15289	A	7907	178	565	KGGATCPESPQDRKRRGNLDMKLYSE NEGMASNHGKMENE*QPQDQRKPQVTL YSGRQEVKRGKDRKQGQNRN*GNV*R IKGKPESEGEAKEGKSERESEMEGGS EREGKPEIEGKPESEGEPL
7239	15290	A	7908	3	413	VTGVLVYLAVERLISGDYIDGGTMLST SGCAEAENIIMG*TLHQSGHGHSHGTTN Q*EENPSVRAVFIHVIGDFMQSMGVLVA AYILYFKPEYKYVDPICTFVFSILRLGTTL TILRDVILVLMEGTPQGVYFTAV
7240	15291	A	7909	119	427	LESLSHKRSSPRHIVIRLSKAKTKKSVL AVRQKYQITYKRTPIISVDCSAQTLQA RRDLGPTFCLLKNNNNQPIILYPVK*SF EGKIVFFREISPERIC
7241	15292	B	791	72	524	LPAPPRIKRALATRPVKVIRVRRGGRK RPVPGATLRKPVHHGVNQLKFARSLQS VAEERAGRHCALRVLSYVWGEDSTY QWITKPVHKHREMRLTSAGRKSRLG KGHKFHHTIGCLAGQLGEGAILSSSTVTA NISKVCKIHT*
7242	15293	A	7910	13	235	DLINKISKAAGYKINTEKSVAFLYTNSNQ TEKEIKKAIPFTITTKNKTLYGINLTKEV *ELYQENFETLMKGI
7243	15294	A	7911	39	141	LSIRGLNIIKRQRL*DWIKQQDSTLCCP* EIH
7244	15295	A	7912	1	285	QQRPPGLRPPHPRGQDQLWLKGKGG AAQL*EGPSGGSRGRGVERERGRRKGR KGRA*RGTRKAGGEGRRRETALASLPLRG HRSPQERPRPTL
7245	15296	A	7913	1	452	TAKTTFFRNAHSKHL*NVCKPVEETQR PPTLQEIQQIDSYNTREKNCLGMKLR DGTYTGFIVHLKLRPGTVPAGIRPQSI YDAIKEANLAVTTDKRTSFYLPDAIKQ LHISSTTVSEGIQGLVKKFNGVDNPQKV ALFKRIHK
7246	15297	A	7914	1	484	NVLCGNNQISDLGILLPEVCMAPEEKGD KDDQLNKETEDYLSLFEGLFKVTEDSL SYEDNQDDSDLLQDLSPEEASYSLEN LPSEDESCLSLDDLAKRIEAEVVPTEGLV SILKKRNDTVGDHPAQMQHKPSKRRVR FQEIDDSLDQESLGFGDGAL

7247	15298	A	7915	2	1121	HYATDRFPFERVRILLYYTYSVPSFPS YTKCCFEFLTIYFSSSLESKTCLGTESSKE SQHTVEPLGSSPCCHQMDVQTDSPSLSV TAGKDHMEELLCSAEATLALHTQSSETA GSPSGPDSSDACEEDSRLQLAQTEACQ DVARIEGIAEDPKVFLSSKSKTEPLISPGC DRIPPALISEGKYSQAQRKELRLPLRDAS EALPTDQLENNELNELQQPDLTDSGKS PQAQADSNSENVLCGNNQISDLGILLPE VCMAPEEKGDKDDQLNKETEDYLNLL KGCLKDTEDSLSYEDNQDDSDLIQDLS PEEASYSLENLPSDESCLSLDDLAKRIEI AEVNQR*STIKSKMAFKKHYYVNLIALFL
7248	15299	A	7916	2	390	SDSRETRVVNLKDSVFCLYCKLFEGEK NQVKNENGCKDWQHLSHLSKHEESEM HINNSVKYSLKSDLKKNKAIDAAERRL YENEEK*WCAVVVHVITYLSCFLGMMIR NLTLRKTSLAIVSTIVL
7249	15300	A	7917	1	240	KRGEKAPETSKTSTWRIPCRKRRLSNR DFPDLSTGEELPETCGSCLRRGSGREN*D AETWPAQCPECESKAAVSTRFLF
7250	15301	A	7918	3	420	EPLSSPLFCP*NQSKIHPPIFLAPTWPHP HHFPPGPGQPPFPLSTGSHLVL*QKPKGA HEHLSGIPPSLAQNPTWVPPHPGKRSSPH SATRPCICKPRLAPSTLLTPSNLTGP*PL LPGALPGLGPENFCTGCFL
7251	15302	A	7919	2	127	RFWDYGRIALVS*ADSESRFQRLSSTSSS GQQDFENELVGI
7252	15303	C	792	56	289	MNFTNFTYISGSGGAGEYCAFSKLPGES HRIVWWNLWPFPRRLSACRCQPQRH LPCALWELVLVNPTGCSRISSE*
7253	15304	A	7920	1	346	DSRSPSPASPPTQ*CRPSSFPGPAPPRLW LAPPFCPPPPHGYGPFPAKRRGAALGL TRVLPPGSAVRRSPGPGPSAWDKTLK MKQKKFGRSVGLWRELIRDCLAELLSA
7254	15305	A	7921	184	291	
7255	15306	A	7922	481	716	VFFFFFFETECRSIAQAGV*CSLRLPPPGSS DSRASVSRVAGIVGACHHAQLIFVFWVA MGFHHVGEAGLEHLTSSDLP
7256	15307	A	7923	4	423	VARERRLPGPQEGPHGRAAGSASPLAPSI APSPGPPALPASHILGSQALPSPETPW*S PWDPPAPLALVSPWQFPGPAPATP*RS PLGLQTPQAPGSWAPPVATPQASGLPA PHVPETPWASS*LALVPETPWDL
7257	15308	A	7924	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKKK GIQGHYNSCYLDSTLFLCLFAFSSVLDTVL LRPKEKNDVEYYSETQELLRTEIVNPLRI YGYVCATKIMKLRLKILEKVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
7258	15309	A	7925	3	187	VLAGLELEDECAGCTDGTFRGTRYFTCA LKKALFVKLKSCRPDSEFALLQPVSNQIE RCNSLAFGGYLSEVVEENTPPKMEKEGL EIMIGKKKGIQGHYNSCYLDSTLFLCLFAF SSVLDTVLLRPKEKNDVEYYSETQELLR TEIVNPLRLN*YCSRFPIRLSAVTL
7259	15310	A	7926	4	343	KLEN*KMVLKEIKEDLNKQTDILFS*LQR LITVRMSILPKLIYKFAIPQIPA*FL*IKIII KCMRKGK*TRIAETASSSSSPSQSFILSPK LDHRGGITANCTPPWAIKGLL
7260	15311	A	7927	1	531	FYHADHAALKDEMTEY*VFLQIKRYLY HGRLLCKHPDAALLAAYIIQAEIGNIDS G*HPEGYSSKFQFFPKHSEKLERKIAEIH KTELSGQTPATSENLFLRKAQTLETYGV DHPCKDVSNGAAFLAFTPFQFVVVLQGN KRVHFIKWNEVTKLFEGKTFYLYVSQK KKGIGSCP

7261	15312	A	7928	115	348	KSCLNIFGLKQTTSSLRWNRVKK*AHY G*QLIFNKGAKIHWIKYNPANGICYWISI CKKVNLDPYLIPYTHQNGS
7262	15313	A	7929	4	430	AWLSALNSSLPATWSCPSLGASHKLQ WEATSPTVPPRAPSQVKCAACEPTPTLP CLPFQPPRSLSSQAQVLLTGHPG*GPLR RQGEGLLRSGCQARLTQPNSEGGAV S*TGRPGDGAVGEAAPETTRDCPTAPP AS
7263	15314	A	793	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDSFGNLSSASAIMGN PKVKAHGGKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNLVTV LAHFGKEFTPEVQASWQKMVTGVASA LSSRYH
7264	15315	A	7930	1	380	GTRLLVRYTPKEPQVWTPTFVEVFGDLG QVGPE*C*HPEAKRMPCAQDYLSSVLN QLCVLYEKTPLSDRDTKCCTESLVNRRP CFSALEGDEAYDPQELNAETLTFHADICT LSEKERQIYKQTVL
7265	15316	A	7931	2	388	NVQKSLAFLYTNNSQVESQIRNAIPFPA TKRIKYLGIPLTREVKGLYNENYKTLLE FREDPNKWKNFPCSWVGRINIIMAMLS KAM*RFPRVHIKIPGTFFTELKPKLFIW NQKRAQIPRATRA
7266	15317	A	7932	72	373	TSTLKKLEEKQTQSRKEIKIPAEINAIEN KQIEKISKTKSCSF*SIKITNP*LKQ*TKE KI*INNIKNRGQVTMAFVAIKRISREYC Q*LYTNKFNI
7267	15318	A	7933	2	259	KQWKPAPPGPANPLPRGTSGPE*KGPHS DKAKPFSPPFKRQWGGAPSRSKKARG KGQPPKGGHLKGPLRVVNGV*RAPLNR TAA
7268	15319	A	7934	3	335	QIKPPRLRDTPHSFTPYHPVRRGLVYFPS APSPAKGEQLHTRTRHNVLGSHPRRRLP RSS*SSHRVTRGSLGSVPPARSTSYGPSR QWDLACPLTPEGVWRTKNNKPEAL
7269	15320	A	7935	37	281	GPSPYTDPTPTYP*LTLNTPRTNSTLPP TLHLPSRPTSPSPSTSLPPLVLRFFLKIQ SGKRRAYPEHFWGQNGERKV
7270	15321	A	7936	13	234	DLINKISKAAGYKINTEKSVAFLYTNSNQ TEKEIKKAIPFTITTKNKTLYGINLTKEV *ELYQENFETLMKGI
7271	15322	A	7937	3	426	VLEELPISVLNSSSVPAWQWLAHVYHS HGMMRAAQMCIKTLQLASQRRSWSWA KLSSLWRLALLALKGCMANISNDYWPS LVQEATTEALKLCFCPLAVLLLALLQFK RKMVST*TLCLLERVVYHPGPSKFIGSN WPAV
7272	15323	A	7938	132	393	ETNSLFGPQVKRQGNLGLNPPPRGFK KFSGLTLRRSGNYRPSPPRVFGF*GKRGL NWVAKGGDLDS*NNPPWPWSQGARIM GES
7273	15324	C	7939	170	394	
7274	15325	A	794	38	604	APSPDAMGHFTEEDKATITSLWCKVNV EDAGGETLGRLLVYPWTQRFDSFGN LSSASAIMGNPKVKAHGGKVLTSLG AIKHLDDLKGTFAQA*SELHCDKAAM WIPENFKLLGNLVVTRFGQSHFRQKNF TPEGCKASWAERWVTCSPVALFLQDT TEAQLPMNAELFKDKAFILASNYK
7275	15326	A	7940	107	379	PPFVAQLGGKGNLGLNPPPRG*RFSS LGPPISGNYGPPPSRVIFGLRKKGVSPS GPGGFGIPDLKIGPFNPPKGLG*RGGPWG PNQ

7276	15327	A	7941	83	409	PEIISGFFFDHHGKLETPKRNFGNYPNT WKLNTLLNDQGVIEGSSSSSLKWLKTN EKGNTYQSL*DTAKAVLKGNLTAJSAYI KNREKLQINKQCIFNYPEKQEQM
7277	15328	A	7942	15	334	QHFWFNFHVTKDRINTGERQETDWKIFA TYLMKKV*ISRKCYNYSYKLVRRKKQLNR KWAKEKNKQSQKKKQSGQ*TKTVQPQ* NKRNAD*RYYLSPISLAKSNKLN
7278	15329	A	7943	1	400	ESRLICQQMYMGEKPFPGSCCEKAFSNK SYLLVHQQTHAEKPYGCNECGKDFSSK SYLVHQRIHTGEKLHECSECRKTFSFHS QLVIHQRIHTGENPYECCECGKVFSRIDQ LVSHQKTHS*QKPYVCNEW
7279	15330	A	7944	46	364	SHLPNSSFEQKYAYEFVPGYQKHYYLSK FPWPFFAEMEKLILKFKWKS*SHITEAIL RRKNKVGDLTSDVKSSL*RYDNQLLSV *Y*YKHRRIGPWDHGRPDHIL
7280	15331	A	7945	3	312	VCPCSQNLKAITSTTRCLRGFVCSSSCYR RRARERGMKQTORERERQR*RRRQR GEERQGGKREPHSRARGGGGSRERER VREL*SDSDRSLEREALLR
7281	15332	A	7946	225	720	GLAHSAVRHSSFWGHLQDSGPLVPPGA GQGSGLLAAEWVGKASPWGPAPACPT PHSEALVCSFRTPPSTPHAHGPVSGPA SVLAALRLGLHLLRGCGGGTPTSPQTLQ DEEAN*GHRGHGDRLLRLTQAPTAQPL WHRPWQKDWPNNLPRPLSFWCRPPRP
7282	15333	A	7947	43	418	AYWGRKTPWLTISSFWPTPGSPYYDNGR PLCYSDSDAVLLCFDISRPETGDSALKKV RLDQLSNL*LSMRTKKESGPCHECLLLTS RNGSQGRKRFAQGHTISYSSGTGTWVSL PHCLPPFLLSH
7283	15334	A	7948	2	221	AGPGGSPHGYVGSPLRISTRHLCAATR SLLHIDPLIVLPLVDLKDRIII*NLWGLQP LPPASLLQPTALYS
7284	15335	A	7949	1	409	SPGTCGRRPQTM/PPGAPDFPAVEGRSLG LSPSQGGPAGAGGDAGPQEDVRQPPGEL AHGPLLPAQTG/SPGPQGLWLHRNPTS/G PPSQIGEGAEQGDGEGVADAPQIQCKNVL KIRRRKMNNHKKYRKLKVKTRFLRRKV
7285	15336	A	795	23	153	
7286	15337	A	7950	2	361	YSTSPAGQVGRGPSQGGPAGAGGDAGP QEDVRQPPG/EAGSRPAASCPDWIPG/AA GHVAPPQSYQCPPSQIGEGPGGTPEQA DQVRERPEAHLAEGGAKGSPRRAGRPPR STCGANESG
7287	15338	A	7951	337	1067	NLKAHPRRPFNPPLASGPFLILAGADTW *GIGGWKPTSSLRVPGIQSGAGSERGREP SSPGG*RTSSWGPASPPAPAGPPCEGERP RLPGPAGDVL*RETADPAAQHSMRQAK AGGRLPKERPSTAGKSGAPGAWSVGGG HRSQGSSTRCLKTLVLRPPSGTSGPSPSRP RSAAATRRLRTAPAGVLAAPDSALAQA PPGPKGDGFRGCGPWYYPQVQNRFRITQ GPDSQRADGSAGSRLRK
7288	15339	A	7952	127	440	SLRYTFLYTFPILEHIIIVLMQQTCLHGFI SIYLLIHTFILQIHFFHTLFQQTCSIIQLY FLV*YFAYVYTFILYLSYPFLYYY*AC FETFDSFNEIGRV
7289	15340	A	7953	2	341	
7290	15341	A	7954	288	802	GVIMATSELSCVSEENCERREAFWAEW KDLTLSTR/AEREGCSLHEEDTQRHET YH HQGGQGVLAQRSPWLMMRMGILGRGL QEYQLPYQVLPPIFTPAKMATNEER EDTPIQLQELLALETALGGQRVDRQEV A EITKQLPPVVPVSKPGALRRSLSRMSQ AQRG

7291	15342	A	7955	72	488	HEAGSRMNGDHNSDVFSQD*QDFVQH CQIGRVLTEDEMGHPEIGDAIARLKEVLE YNAIGGKYNRGLTVVVAFRELVEPRKQ DADSLQRAWTVGWCVE/ADDIMDSSLT RRGQICWYQKPGVGLDAINDANLEACI YR
7292	15343	A	7956	1	236	GTRVVAFRELVEPRKQDADSLQRAWTV GWCVELVRGVGGRRSFLQWW*LGWE GEGWA*NLFLGCVCSLSLVCYGOI
7293	15344	A	7957	317	1395	TGDQNSDVYAQEKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLEYNAGG KYNRGLTVVVAFRELVEPRKQDADSL PAGPWTG\WCVELLQAF\FLVADDIMD SSLTPGPNRSCWYQKPGVGLDAINDG\N LLAEACIYRLLKLYCREQPYLNLIELFL QSSVYQTEIGQTLDLLTAPP/QGNVDLSEF TEKRYKSIVKYKTAIFYSYLPIAAAMYM AGIDGEKEHANAKKILLEMGEFFQIQQD YDLFGDPSVTGKIGTDIQDNKCSWL VQCLQRATPEQYQILKENYGGKEAEKVA RVKALYEELDPAVFLQYEEDSYSHIMA LIEQYAAPLPPAVFLGLARKIYKRRK
7294	15345	A	7958	3	484	ETPVPATSAAIRLVLLPSLRVTSFGRQGP SVDRVVFPPFKFRPERSRHAAGPNVVR PQPKPHEVGGERRGRPNAPANSFRSCSN LSPQYSLPKQNKSSNP*IPNKPTPPASPS GRTDGLSLLQPLPGSDGQASPTMRSSPAI SSALEIEFGKTNPFH
7295	15346	A	7959	3	432	SGSSRPRGSAQPRPGPGACGMAAPTSE*S SPPAWQPRPPCGGLHHCACVHPHRDSG GSVPAPAAACCHTPHGRPWPEFEGQRPQT QPQPQPAWVRPVLTLFAGRVASVPLVS LCAWASGSQGPSPGSGRALCTGLGAP PA
7296	15347	A	796	84	358	APRADAMGHFTEEDKATITSLWGKANV EDAGGEALGRLLVVPWTQRFFDSF/GQ LSELHCDKLHVDPENFKLLGNVLVTRFA IHFRKEFTPE
7297	15348	A	7960	2	331	VCKLQPQLPAHSGSPNIHISQLCPSHAW GLLVSSGCVTLRESFFLCFALVLQRKS SSLGILSCPGSIFTALNSTNLYILGFLGGF CLVFF*DRVSLCHPGWSEVVQS
7298	15349	A	7961	25	364	LFYLYHLLFFGFLFLFLIKLGSSLFINFS KKSVL*FTNWIYFSVLYFTDFCFIISFFG FSLIYFIIVGFPLKFIGFILSFI*ITVFYQQA QWLTPIVILWVAEVRGSL
7299	15350	A	7962	174	469	NGPP*RKKFFLSIPRKIWAPPGFF*/EGPPL FFFFFLTESCSVA*PGMRWHNPGLLQPL PSGFKQFSCLSLPSSWDYRCPLPHANFF VVVFLVETFC
7300	15351	A	7963	65	2774	
7301	15352	A	7964	243	687	PHPIPHSEENFEFLIVSSTGQTWHFEEASF EERDAWVQAIESQILASLQCESSKVKV RV*GGVEDWPQELTLVLTAGNDTAEVV *EESRGV*EGGAWRQSQCPQPSLQLR TDSQSEAVAIQAIRNAKGNISICAHASAD AWVEA
7302	15353	A	7965	3	368	PSDPEVAGDPIFPPGPPSCPEVKDKTKSSI SLGWKPPAKDGGSPIKGYIV*MQEEGTT DWKRVNEPYKLITTWECGGPNLKLRLK YRFRVKAVNEAGESEPRDTTGEIPATDIQ EEPEVFID
7303	15354	A	7966	3	78	FKIQNLIASTVRTVMVADCSRFDSPDLLL EAGDPATSPCRIFDLGSDNEEVVAIPDPS HPKEGLSYSLSCVLLGRSLPRCLISCIPL CLSVASGPHKFY*PHCQHRPHGDGGRLO PLRQP

7304	15355	A	7967	195	345	NDISANPAIKKFWKLPKCPTTEGWLNT* LYIHLVEYYATLKVCGDLYVR
7305	15356	A	7968	2	801	WRNSADVWYCGGPLLDTLPSNWSGT CTLVQFAIPFALAFLOPEKEKPQHRKIRE APYGSFDSQVYLDATGVPOGVPHKFKA QDQIAAGFESIFWWVTISKIDWINYIYY NQORFINYTRDAVKGIAEQLGPTSQMA WENRMALDMILAKKGGVCVMIKTQCCT FIPNNTAPSGSITRALQGLTALSNELAKN SGVNDPFSGLERWFGKWKGIASILTSL AARIGVVILFGC*VTPCIRGLVQRLIETVL TKTSLSSPPPYSD
7306	15357	A	7969	113	362	WLHAPECFSQCPSQSPSP*LCQGPESDP DPRSVVGPPLSQAGSPGRPGGTVITLCCCL WPHLAPLFHLWSPGKCTSLLVVQHS
7307	15358	A	797	1	428	
7308	15359	A	7970	1	955	MTQPFNYSAFERIIFAGSPGHITVFSSERSL LVRPRSHPEPKGEHYVTGSPTPENQRTS AAMSKPHSEAGTAFIQTQQLHAAMADT FLEHMCRLDIDSPP/RRPLPATPQKPPW VPWRPPSSAAVGP*SSPSLADVKSQVL VTCLACHCHWQREEWVLVTLGQGCLS VSEFRV
7309	15360	A	7971	113	716	RSLGPCQHSWQSSPGGPRPQRPPLGLP CTAQGRCHGTGGPDE/TVWGFRTVAMM GARGRYL/AHLVSRLEMWGSYIRVHFT RPQEVPSGRSNSSPSHPAQ*GLWPLQHLL RRTPEARAAPHIPISPSAC*VTICPLPPFH RPRDQDHLAPARSASPTVPPQPMVGRTP PTP*TLTQRGSPGPMSPAPIPLAANDSDK PSST
7310	15361	A	7972	244	1510	KFPKPKTPPHLGMESAITLWQFLLQLLL DQKHEHLICWTSNDGEFKLLKAEVAKL WGLRKNKNTNMNYDKLSRALRYYYDKN IHKKVIGQKFVYKFVSFPEILKMDPHAVEI SRESLLQSDCKVSPEGREAHKHGLAV LRSTSRNEYIHSGLYSSFTINSLENPPDAF KAIKREKLEPPEDSPPVEEVRTVIRFVT NKTDKHVTRPVVSLPSTSEAAAAASAFLA SSVSAKISSMLPNAASISSASPFSSRPSL SPKSPLPSEHRSLEAACHDSLEPLN LSSGSKTKSPSLPPKAKKPKGLEISAPPL VLSGTDIGSIALNSPALPSGSLTPAFFTAQ TPNGLLLTPSPLASSIHFWSGL*SKFVP LSPARLQGPSTLFQFPTLLNGHMPVPIPS LDRAASPVLLSSNSQKS
7311	15362	A	7973	1	1230	
7312	15363	A	7974	3	358	LPAPGARPEWLLFPAPVVGVPVLCWTPQS IISLHFFLNPVGQTLSSSSSSSSP*RT*LP MTLS*VGAVSGFKPISRPEPHSGHNSPS LSQPSLTILVSSNSPGSGKARGPQCPQAW L
7313	15364	A	7975	194	372	LFG*LKAPPPGLKQFSGLSLRRSGNYGPP PPPPVYFFVFLKKNGFPLVTQGGNLRT WG
7314	15365	C	7976	238	459	
7315	15366	A	7977	1	505	AGGAGEETPHQESQRQGCALPQEPLYLP PCPAIHPPPLPLGGLLFPSPSLALSCMV PPPWAAQEGI*MENHQPEKKRLWGPPP ANSFPARPLNPHLFQAGTGCPPCPREVP TPSPWAEPPPLPGPPSEIAHLTTVRRGA ALANVNHENISDTDENKLNAFVTA
7316	15367	A	7978	39	141	LSIRGLNIIKQRQL*DWIKQDSTLCCP* EIH

7317	15368	A	7979	8	532	FNYLLKFKIRPPHAFQMFPMSQKKEG PETAESLSHHGCLSL*R*EISWAPPTCG AFPSSAATLGASVPLGASVPLGAAGMQR GRRGHRIPGDTWGLLLPGAGGTDAESPA HNWEP*TSVPPSRPGHPSPSAGLQSGRP PL*GDCEWGRKAGKGHAY*VPGPELHT LPLSDP
7318	15369	A	798	2	476	VNVEDAGGETLGRLLVVYPWTQRFFDS FGNLSSASAIMGNPKVKAHGKKVLTSLG D/ASSASAIMGNPKVKAHGKKVLTSLGD AIKHLDDLKGTFAQLSELHCDKLHVDPE NFKLLGNVLVTVLAHFGKEFTPEVQAS WQKMAED\VTGVASALSSRYH
7319	15370	A	7980	1	9786	
7320	15371	A	7981	27	13822	VPFSVAAAEEPAQPARAARPRGRSPGA APPQLAMDPPRPALLALLPALLLLLL AGARAEEMLENVSLVCPKDTRFKHL RKYTYNYEAESSSGVPGTADSRSATRIN CKVELEVPLCSFILKTSQCILKEVYGFN PEGKALLKKTKNSEFAAAMSRVELKLA IPEGKQVFLYPEKDEPTYILNIKRGIISALL VPPETEEAKQVLFDTVYGNCSHTFTVK TRKGNVATEISTERDLGQCDRFKPIRTG
7321	15372	A	7982	40	400	ELFGHIALQTIAYSILWDLKFLMRNLALG GGLLLLLAESRSEGKSMFAGLMMFTLL HFDASFFSIVQIVGTALMILVAIGFKTK LAALTLVVWLFAINVYFNAFWTIPVYKP MHDFLKY
7322	15373	A	7983	1	900	FRAAGAGADGREPASERASRAEPPAVA MGQNDLMGMAEDFADQFLRVTKQYLP HVARLCLISTFLEDGIRMWFWQSEQRDY IDTTWNCGYLLASSFVFLNLLGQLTGCV LVLSRNFVQYACFGLFGIIFLYTIAYSIL WDLKFLMRNLALGGGLLLLLAESRSEG KSMFAGVPTMRESSPKQYMLGGRVLL VLMFMTLLHFDASFLFLVQIVGTAL MNLVAIGFKTKLAALTLVVWLFAINVY FNAFWTIPVYKPMHDFLKYDFQTMVS IGGLLLV\VALGPGGVSMDEKKKEW
7323	15374	A	7984	2	397	GRVGRPTRPPTRPPTRPPTRSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSG PFFGVSPCVPEILKSSSPRIGCPRN*APFFK RGNL
7324	15375	A	7985	5	230	IGNFKNVFSIVNITTRQNTSTDIENLKNNT HV*NTVSNS*YTVFSSACGTFTKISHLLR H*TSLDKF*KLDVLWS
7325	15376	A	7986	1	366	NPSIVGGQDLCKGNYKTQIKDLLADGSS SSSSSSSSSSSSSSSSSSSSSSSSSPAGPM KTPTSFLIELGKTIVQFL*NQKR*ITKVIL SKKPQKTENKTKLEAFHSTLCYLPSONYA TRL
7326	15377	A	7987	3	361	ISKKKFFLKGFFFLGFF*KKPPFFFPFPPP G*RGKKKIFFFWVKKNPLEKNFFSLFLK KGGPPTPPGGFFFKKKKRAPQGGGPPKI FFFFFFFFFFFFFFFFFGDGVLLCCPGWSAV
7327	15378	A	7988	2	359	GLPS*HYSPPQLPH*SHSHTIAPKAEEKA NRKETHFSRSPQQISGRCPQDKSLAKV DFLDQLRPMVGHSLGRGPHLPKHMPT PEQIQEEPEAHIHLPVCEQLPLLPWEDF VYGSSR
7328	15379	A	7989	490	583	NH*SPMFGYICVCFETESCSVAQAGVQ WYNRGSLLQPLPGPKGFVCLSLPSSWDY RRRPP
7329	15380	A	799	23	349	
7330	15381	A	7990	1	129	QPGPEGKIRFFLKIPNLTPSGGKSLKFPLF KRVKPENCLSLRG*GCN*PGPEGKIRFFL KIPNLTPSGGKSLKFPLFKRVKPENCLSL

					RG
7331	15382	C	7991	96	380
7332	15383	A	7992	202	499
					ILGFVQWHDHSSPQKTPGLKQSSCLNF LSS*DNRMPPGLANFFIFVEMGSCYVA QACLELLGSSNPLASVSQNAGITSMSCQ TQLFLLLLNRFPAL
7333	15384	A	7993	1	206
					NSSVFLHLQALGIPLHLAYVSVPPTPG* GSGHGRSLLSISVGQGLPPQRPSPAPFH LDIIHQPAW
7334	15385	A	7994	2	349
					TCHRRKRRNPRHGEVGLGYPTDESAPF SAPALGPGEPRVPGSSSGRASGH*WYPN AVESP*EEGEL*GRRGETLVAEKKKKPR HGEVGPSPMEKKCLPISP*AGPRGPRRP WF
7335	15386	A	7995	269	364
					GHLSAIGHPPF*MSFNHGRKTRTWNYLG SEEQ
7336	15387	A	7996	1	314
					PSRSFISNH*PHQDV*PRFFNGIHL*YSHT PGINHVEPEPNSTRSKACWEGFGSSNSG NGSFLGAR*VDVQEVLTWTWRVIRVWN* CFGRNSAPMAQSKSSSES
7337	15388	A	7997	65	354
					YFYYIFSIIYHFIAPPYYFSLVFLHLCPYL SSFLSR*KIHVCLKDFKVNFS*TIPKLSKL LELLESISLFFL*NVDFIILEIPLYSAILK RVYF
7338	15389	A	7998	1	957
7339	15390	A	7999	97	4146
7340	15391	A	8	190	383
					TRMIHITSVYSHPHQAQLRGCEVLRHKA HLVLP/WSTSCSGIPRGQQTAAQGYSR CFLAWSLEA
7341	15392	A	80	44	377
					TFFLYLENLNTAVRFWKLPHYHCFKNPG GAGLICIAPWLTKAFVFGSDYSCLVTVR VK*VFKPFLKDVEIRR/FTWIRQPWDAV FLRVPDYHALIKQPMDETD*MLANS
7342	15393	A	800	17	535
					APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFDFSFGNLS SASAIMGNPKVKAHGKKVLTSLGDTK HLDDLKGTFAQLSELHCNKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
7343	15394	A	8000	97	2728
7344	15395	A	8001	1	2295
7345	15396	A	8002	97	4027
					EKEPYEEISAEADREPQQLQNYWSEVRY TVRCIYRQAGTPLADDQDQSLVPDKEGV KELVDRLCERDPYQLYQRLEQQAREYV LEMKVRLRLQLSAAAKVKAPSGLQGP QAHQFISLLEEGALCQAARSISTFLGT LENEHLKKFQVTWELHNKHLFENLVFSE PLLQSNLPALVSQIRLGTTHDTCSEDY STLLQRYQRSEELRRVAEEWLECKRI DAYVDEQMTMKTKQRMLEDWELFKQ RRFIE
7346	15397	A	8003	1	450
					GVPYKRHIEGF*PGLNGPLKFNGPSSSSS SDGLRLRFSGSGGQSPNWVPLGSYQGR SRPVPPGGSSAEPFPPSPASGGTHVPQLR ALPPLHGHSAAHPLSLALTVPVPPVVRT L*GHWGPGPPTLDAPPSPSHLQVPLSSQG GIPPHWT
7347	15398	A	8004	16	303
					GENPLMRWPEALPGVFKTCFSPT*GYG GGLMFLCHHADSINFSAFQPINNADFIVP IEIEGTHQVSCQPDHTQPRGWGVCLLP HLYWGPPPIG

7348	15399	A	8005	146	808	RIFSLCSAALSKKHGNPQDCSRRAPGNV PAAISRAPSLVLGLRARTVTRKGGLRPR KGEQGPSPSPDAVKGPGEAPGQARFAP VYQILIGAPRWEPLSTGGYTVSGSSPVV EVGTRANQPRQ*ALPASHLPPLASRSSSS SHLYTAAPPLVSRGSGGSAGRALDSSFP QHSLAKPRPSAGLEAPGHWGRTGGDRR RKGTGGEPHTFAEVEALPASARP
7349	15400	A	8006	111	369	FGPGPPL*SPLF*GSSSSHSGVGK*NPSFL PGGTPVFFKNPKFPPPWGGPPVSPPLFWG GETGNWGNPGGGTLEGPGYPPLALPGG K
7350	15401	A	8007	85	394	DWRRRRRDSRSS*REDCQSTIYVRKRAK SNCWCWSKEKSKSHERDSIPRIIEKMR SRSKGRDHENVKEKEKQSDSIGNDQEGS RSREKSNQFDSKSNERDH
7351	15402	A	8008	2	2255	
7352	15403	A	8009	1	1845	
7353	15404	A	801	17	533	
7354	15405	A	8010	12	450	SEPP*ITSVDPRVRGNASTGYGKIWLDDV SCDGDSDLWSCRNSGWGNDCSHSED VGVICSDASDMELRLVGGSSRCAGKVE VNVQGAVGILCANGWGMNIAEVVCRQL ECGSAIRVSREPHFTERTLHILMSNSGCT GGEASLW
7355	15406	A	8011	121	342	QNESVVHMKTFILAVFKLPLKIRQIKCIYI FYN*ELKLYSVILKYFFLYDFRPVCLVLS EIPFMSTWFLLVSTFR
7356	15407	A	8012	3	383	EKGPLSPKVLFNHLCQKAPRFKDFQQQD SQELLHYLLDAGRTE*TKRIQASILKAFN NPTTKTADDETRKKVKTYGKEGVKMN IDRIFIGELTSTVMCEEANISTVKDPFIDI SLPIIEERVSKP
7357	15408	A	8013	18	280	KCRSRN*TA*FHRLNAKALSLLTLLNVY QKKHLVEILSYHNCDSQTRNAPELDCIR LQAQNIQQRHIVFLTGKESTPKLSTMNIG M
7358	15409	A	8014	3	271	FFLRQSHSVTRLECTGAI*AHCNLCPLGS SDSPASAS*VAGITGMCHHARLIFVFLVE TGFHHVGVQAVLELL/NLMICPPQPPKVLG LQA
7359	15410	A	8015	609	921	FYLSEEAFFFFFETES/HLLSPRLCSG MMSAHCNLRPLGSSDSPASAS*VAGITG GHHPAQLIFVAF/MYQPGFCHVGQAGQQ LLA*VICLPQPPKVLGITGA
7360	15411	A	8016	140	346	FPPICYLLEIGSHSVVQAGVQWHRHSAQ YP*IEHKKQSSCVSLMSS*HYSHVPPSPG NILL*RRGSCV
7361	15412	A	8017	2	348	AGVPPGNPPLWGEGGGSPRGGLKPG FPQRGNPFFFKKSQTPPGGGPPLIPPW GGGAGGSPLPQQGRFQ*TKIGFPSPRGK KKKPPFPKKKKKKKKRKEKSEMPGFMV LNA
7362	15413	C	8018	282	497	
7363	15414	C	8019	267	473	
7364	15415	A	802	160	434	LISVIPALWEAKAEDHMRSGVQDQPGQR GKTPSLRKIHLARHGGMHL*SQLLGRL KHKNRLNPGGKSCSEPRSHHCSSAWAT DQDSVSKK
7365	15416	C	8020	435	821	MKSRVIGWASGLKNEIFFFFFFFFWRDR YRAMLPRLVLNLLFLIEPPVSILVKHWD YRHEPPPRXRLPFCMMRLEGPHCFRDF ATIIYKKQSVRTVAGLFSLIKFSAHTNLD QRIWDLNPISGYFPN*

7366	15417	A	8021	121	818	HSKGSQVQSPGPEPSSAGPKPGAQPQPT WGLAAPEEGREGGKCGRHCRNSKPLSQ PCAGVWSGRGAEEGGAGPDHPARPTGP PSSPSCSAGLPDL**GLKPPLEASSMDPGF VLEGGPRVREGVCQDGI*A*ELEEVPSPG GSATSGAATLSDRRGNGASQARLP*PS HWLPRAK*APQG*ASPGSPTACPAHPS WKGGAGPGMGRGRVVGDRGGAWGT GSHCNTPSS
7367	15418	A	8022	11	368	SFTCCFQMHTKLLCLNTLCLNTFLSTGAFF LIVLTWLSPIAVRLSLNVISERPFLFILSVV DPCAHILYLSLLFVS*VLPQYVIALFVPH KRM*ETMYACLPVCP*LLTACLEHNCISF I
7368	15419	A	8023	3247	5031	EGLRGTTALLTGGGRGP*GQPQQ/PGGP ASSPSPAAPGPAAEPACSTALWPTVSL RAPSPCPPQRAQQYGSWG/GEFG/NSM ASGGDG/EPLSQGLAPAGTPGLARLQGP GHWAVSLWPSLRGFPQGTGQSPLSQP HSALTGRGRSFGALGPPPPQRPQHPAP DPAQPQR*ITLTAAGATTROPQLPQGNCR CSLLLLFLLLLFLLLLFLLFFLLFFLLF LIFLLLLLFLPISLRLNRSQWDLGGGEQ HVREAHPPDPVEQPRPFSVIGEVSEVLV GQTQRHSSWEAHLK WGRHGEHLGLEVI GPLPNPRKAWMPHLLQLGPRDAEHRGH ESVVASSEGRVAPVGRPHRAALSRAAAL NEGTTGGARGAAAAGVRVMLRLQRGGG EHGGROSSQGAVPREGVPRESVLLQLSL WACGVRLSPSRAGSRVQG
7369	15420	A	8024	87	567	KQPPPHGESAAWAATSRPGWLLCRPA EGRTPGWTAFDVHPTLMQKLPEHSGNFS GQSPQCQLEALPRPSTCPLGSSRSGSGREG PLPPT*ELFPNGQSVRCQVGGPGYDSWC PGGPAFCPPTP*M*GPQALTSAPGPNK HPGLELGGRRGPERAPGPF
7370	15421	A	8025	2	347	KALACPPTCCVLGVHHAHVSAAGFPGHR PLVRRHIAPAGHQVTLFHLPTLCCHPKS NCTPCGSRRVPTPTPLPAPGPQAFCPVP GSHWLAWSPRGRSPPTSVAPTQPY*QPP SC
7371	15422	A	8026	3	359	HEGTVQQPQARGLYEDLLMSEGENDED DAGSDDNGDNIFSAIHLSSEGRDSDA*FG GIRPKQSRMLKENTRMVMDNEERLLFY EGDCGEASHGLEDSCLSYGSYEDDPDK WNTQNTSFC
7372	15423	A	8027	2	424	
7373	15424	A	8028	3	456	PQTQREPTMVLSPADKTNVKAAWGKVG AHAGEYGAEALERMFLSFPTTKNYFPHF DLSHGSAQVKGHGKKVADALTNAVAH VDDMPNALSALSDLHAHKLRVD/PVNFK LLSHCLLVTLAAHLPAEFTPAVHA/SLDK ILASVSTVLTSKYR
7374	15425	A	8029	3	198	RQGSCSVTQPGVQWNNLGLL*P*PPGLK QSSYLSSPSSWDYRCVPTRLANSYFKFI* YVFFCLF
7375	15426	A	803	1223	1338	RWPLWSFHETKRRTL*SQLRRLRQENL LNLGGGGCS
7376	15427	A	8030	1	346	LFAQPNPVTFKIRIYCMSKDIIDKVRARP PEWEKICANHVNKGLGSRIYKVLLLE* KNIVRLNQKANAQFYAGYKLRCYRKFS NKSIVNE*KVLLFMR*EYIPVSTHFICCVI L
7377	15428	A	8031	60	523	

7378	15429	B	8032	68	679	MGKEKXHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLAYT LGVKQLIVGVNKMDSTGIAILTGD FPSLE PRHVSTWLQHVVTIPTRNWHKCYCVGV VANFLN*
7379	15430	A	8033	53	1497	KLPLKAKMGKEKTYINLAVIGHVDSGK STTTGHLIYKCGGIDKRTIEKFEKEAAEM GKGSFKYAWVLDKLAERERGITIDISL WKFETSKYYVTIIGAPGHRDFIKNMITG TSQADWCCPELLLLGVGEFEAGISKNGQ TREHALLAYTLGVKQLIAGANKMDSTE PPYSQKRYEEIVKEVSTYIKKIGYNPAT VAFVPISGWNGDNMLEP'SANMPWFKG WKVSIRKDWQCQLGTTLEALDCILPPT RPTDKLLRLAFQDA*QNGGIGTVPVGR VETGVLPKPGMGVTFAPVNVYNGK*KS VEMHHEAFECKLFPKDKCGAFNVKINV SVKDV'RRGNVAGDSKNDPPMEAAGFT AQVIILNHSGQISAGYAPVLDCHTAHIAC KFAELKEKIDRRSGKKLEDGPKFLKSGD AAIVDMVPGKPMCVESFSDYPPLGCFAY RDMRQTVAVGVIAVDKKAAGAGKVT KSAQKAQKAK
7380	15431	A	8034	3	309	RFTGHYRMLSGEKPYEWIEWGKRLSSN TALTQHQRHTGENPFECCECGKAFNQK ITLIQHQRVHTGEKPYEC*ACGKTFRWG GRFILHQNLPQTQKTPVQA
7381	15432	A	8035	3	366	RDSVVEILFEQDNKEQSVATLILDSLIQCP IDTRKQLAENLEMMFMDVGKTQPPLKRA FSTEK*KFD*/TINLASYQIFNQL*ANCTK YVGC FVIEDYSGSESILCLLFALIYNSFDF VSLV
7382	15433	C	8036	310	546	MGIMSVPPHPQNVDPYPLDGEKILHLGF NPEIQLWEILFEQDNGRAISWPLLILGFPL YSVPIGHQGRQLGRRNLGRS*
7383	15434	A	8037	97	333	HRIRPICSPQYMEKVYVTKNNNYRILEID MNFPPPETEGVGGQVLEVM PHEELKPS IFFFF*DRVSLCHPGWSAVVQS
7384	15435	A	8038	250	378	TESLYLNTIKATYEKFTANITLNNEMLKA FSLRLDTR*EHSL
7385	15436	A	8039	280	759	GYINNGGRKRRTELKPTPRSCRAEGGG VEGGPPACPPPTNCLQRLQPHLGSCTEIS GOERE*GYINNGGRKRRTELKPTPRSC RAEGGGVEGGPPACPPPTNCLQRLQPHL GSCTEISGQERESGGGEGNSGPSNNRVH GFSKAGHGLGVGEEEEERQLWL*TGRK QRPNIPIRRLPQASLHLPASPCQPAVPG ALSSPRRWQPPASHSCSPPRHTKS
7386	15437	A	804	1057	1354	SQHFGRLWQVNHLSRGAPAQPGQQGKT PYLLKIQKLAGRDGARL*SQLLRRLRQE NRLNLGGGCGCSEPRSCHCTPAWVTKRD SFSKTNKQTENNKKRIL
7387	15438	A	8040	1	401	ILVLDPPPQPKLLSVKGNPEDFIFRQFFF SPYPLFPFPFYSYAKPPVSNETPFPHPRF SKLLSQPADMPPLPGSLP*LLHYSACM LHLLFCSLAHCAFRLLSCQGCQYLHGL MHMFRSGHMHIYAAGR
7388	15439	A	8041	32	378	CVYTFIC*EISGLFPVWG*YRK*GSSSSSS SSSSSSSSSHFNKYSSCMFNFF*NC*TVL QSGCTILLHHWCMRVLSP*COQHLAV FFSIIALLSV*LHLTVIFICIPQITS
7389	15440	A	8042	30	434	DGSSLCRPGWSAEQDCVSSGGEKKKKG RDNIEDEACSSRPSR*LFEENIHLVHALIE EDQLANIIDISAGSAYTILDEKLTLSKRFT RWVPKPLPSDQLQTRAEFLMEILNGWD

						QDPEAFLQRIVTGDET*FYQR
7390	15441	A	8043	3	340	IPKPMAKLPFMKYRDLHTNLLYSRMETG PKHIPMKTLLKIMEDIALGMDNLSLMNY LYLELTARNCMERDDMTDCEADFGLSR KRYSGENYLHCRIANRPV*GSAIESLAHR
7391	15442	A	8044	3	378	LIKHHVDFDLATNVQEEKIAALEDFAHQ LITAGHYAKGDIFSRNEVLDRWRRVKT QMIEKRA*V*KSQTLQQFNRDVDENEA WISEKLHTASDDSYKDPTNIQLCKLLSK HQBHQAT*TELPAT
7392	15443	A	8045	169	375	SSSSLPLHITNNPLHQQLPPQLPAYTGA EGDPCALLS*YCLIHLLNTEAVNNITFLG KQPCCKRYDKV
7393	15444	A	8046	27	289	RSPKTHGGGRRWGMVRPGTAPT/PCCPH RPQLP/CQPLGPPE*SLLEGRSSSLDSGM EESQTHAAPACRTWCSDGPR*PWMGPA ARCSG
7394	15445	A	8047	3	284	LFLWRRQLTLTENPRWWPTLGDGQARD CSDACCPHRPQLPSSHCSQTKSSPIEVPR PPKHR*GGVCAGPSHLPGGPGSSPSPCP WPGSGLF
7395	15446	A	8048	459	1020	EPARGAEQGGVPGGKGPETSAAPAPTFA REPERVPGGA/PPAPECACAEVAAPAPA GGSL/PAGPRPWERPRWAAGAP/QGDKG PGEAATSPA/RGDSGVEPRGGVPLPRH AGPQARRCEPTLPHDLYSGQVQPEHRAA G/LHPRSSGTI*APCTTCRAA*V*DSSIPE SREELRPSKKRSFRRSEKEK
7396	15447	A	8049	3	417	VTGKAFAQKAQLIVHQIHTGKKPYDC GACGKDFREKVHLVRHQRTHTGEKPYD RSERGKAFSHKSDLIHHRVHTGEKPYEC CECGIAFSQKSPLIHCRIHTGERPYECIK CGKAFYHK*QLSIAHRAHTGDIAG
7397	15448	A	805	831	1082	SQHFRPRRADHLRSGDRDHPAQHGETP SLLKRQKLASHGGRHL*S*LLWRLRQEN HLNPGWGGCSELWRHCTPAWATSKNS F
7398	15449	A	8050	29	223	LIKKLASCGEHLYS*LLKRLRWEN*SSL GV*GCGEL*SQHCTPTWVME*GPAQKH KNKTKKLL
7399	15450	A	8051	194	372	ICQPLSLSTANHPVLCLCFTHKNLHIFIA ALFIIAKSWKQP*CTSVDEWIWGLAPLY
7400	15451	A	8052	1	325	FFFF*DRVSLLLPKLECNGTISAHCNRL PGSSDSPASASSSFTIHVAPLPQLRHY*I FYDGTRSLYAG*YSQNLLIYSAPRQPQY HFKDMNKILDSIQRSYTKI
7401	15452	A	8053	228	481	QFFRNTIFF*DRVSLLLPKLECNLSAISAH NLCLPGSSDSPASASRVAGITGTCHHTRL LAFVFLVETGFYHVSQSGLLELTSKD
7402	15453	A	8054	175	431	LIVKMPFLK*SWKIF*MSK**VMLIH*GF VFLFVCFF*DRVSLLLPRLCNGPISAH NLHLPDSSDSPASAYIKGFVRQLSHEE
7403	15454	A	8055	257	453	TKGGGYTQRTAIQFILFIYFIY*DGVSL LPRLE*NGAISAHCNLHLPSSDSQKKT KNFCTQ

7404	15455	A	8056	277	1230	ISFHLSTFGAPSF FFF FEFMEFSLLLPRLEC NGAISAHNRNLR L PGSSDSPASASPVGWD YRHVHPRSANFV FFFSRDGVSPCW SGLV SNSRPQMIPPSRPPKVLD TGLATMPGLCL ANFCGRNRVSLMCP SWSP ELKQSTCLSL PKCWDYRRAAVPGLFILFFLRHRCPTLT QDEVQWCDHSSLQPSTPEIKHPPASASQS SWDQRHAPHLANFYFYF*FFETESHVS TRLECSGAILAHCNLC L PGSSSYSPAPAS* VAGTTGAH/RRLANFFVFLVEMGFHHVR QVDARSLDLVICLPRPPKVLGLQDVSHH RPAYF
7405	15456	A	8057	1	467	FFFLF*EGVSLLLPRLECSGAISA/HCNLH LPGSSDSPASASQEDGITGVRYHAWLIL/ VFLVEIGFHHVVGQADLKP*PQVIHPPLFF FFLRQSFALVAQAGVQWCDLSSLQTPPP RVQGILLAQPEYLVAGFTGMRHHTRLF FFFAFLVETGFHPC
7406	15457	A	8058	274	321	
7407	15458	C	8059	69	254	MDHLYNXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXEQFXXXXXERERNKNPPAGD DIISRGVGO*
7408	15459	A	806	144	441	GYQLPLQDELVLGOFLFQVSKIRFFSARK ITCNSHFLLLKFF*FPHICK*VSFSERAA AADRAGASHPRIHHNLQRLQENSIRGPK YSSHTVSADAW
7409	15460	A	8060	32	169	NPVPPYPLCPALVFFLLIYLLIY*PSPLLR MSAPAGKGFLFSL
7410	15461	A	8061	417	490	
7411	15462	A	8062	424	579	
7412	15463	A	8063	1	2157	GFQKRCRHRIAQLFAVGALVCLVLLHL SAMISASRAAAARLVGAAASRGPTAAR HQDSWNGLSHEAFRLVSRDYASEAIKG AVVGIDLGTNSCVAVMEGKQAKVLEN AEGARTTPSVVAFADGERLVGMPAKR QAVTNPNNTFYATKRLIGRRYDDPEVQK DIKNVPFKIVRASNGDAWVEAHGKLYSP SQIGAFVLMKMKETAENYLGH TAKNAV ITVPAYFNDSQRQATKDAGQISGLNVL VINEPTAAALAYGLDKSEDKVIAVYDLG GGTFDISILEIQKGVFEVKSTNGDTFLGG EDFDQALLRHIVKEFKRETGVDLTKDNM ALQRVREAAEKAKCELS SSVQTDINLPY LTMDSSGPKHLNMKLTRAQFEGIVTDLI RRTIAPCQKAMQDAEVSKSDIGEVLVG GMTRMPKVQQTVDLFRAPSKAVNPD EAVAIGAAIQGGVLAGDVTDLVLLDVTP LSLGIETLGGVFTKLNRNTTIPTKKSQVF STAADGQTQVEIKVCQGEREMAGDNKL LGQFTLIGIPPAPRGVPQIEVTFDIDANGI VHVSADKGTGREQQIVIQSSGGLSKD DIENMVKNAEKYAEEDRRKKERVEAVN MAEGIIHDTETKMEEFKDQLPC/ADECN KLKEEISKMRELLARKDSETGENIR/QAA SSL/QQAS\KLFNRGLTKKMG*AEEGS G\SSGHWGNKREDSKGREKPVN
7413	15464	A	8064	500	752	

7414	15465	B	8065	1	1713	MALWRGSAYAGFLALALTWRDRKKKF PGDDEAPGVKRTWAAGAGMRGRQWLR KRVEVVCTGRSANTVCAGVRAAGLVEK SPPPSLSRVGRRFRFCGDLDCPDRVLAEI STLAKMVECTGSTLGGGGYKKILKLTAD AKFVEEHEGKKDIDSPTFLSSASSWWSS SAYGSRPPGGFELKLIGQQGESGDVKAT VAVLSFILSGAAKHSVDGKSLASELQQL GLPKEHAASPCCCYEEKQSPLQKHLRVC SLRTWSLAARVAEGTAETVDPSPAAPKTS VWSSRVCWGRLLATISPSVNETDTCGME DRRLVVCRPWRAQCHMKAWGWRHPEE GGTHSGAPSAVLQALAVAIQLGGHLADP LLQVDPLSSCGAVSLDILIYLVFYRTAS VPETYIVKTLFKKLESQSLIQSNVLRNS SMKAERGEEAAKEKSEASRGWFMRFKE RSCLHNIKMQGEAASADVEAAASYPKD LAKITDEHGYTKQQVRCIQNSLLLEGNA EEVRKIIVCSMSPLKPGGPVTLVEEFLC ASKASVSASVGWISKWRNWQEIRRQEE REDRASLPDLQASES*
7415	15466	A	8066	1	3053	MRPGFVVSVGMVEGVPGEPDPYPVLCY TPWPGHDLPASRAALAQGRSWSLHRMI GQDSGRRRSRRQHFPAGTSSGLRSAPGL TRAGPAPPEAVSPSHVIVDSADLAGPEKE IPGPWLPRAMYEPGVKRAWAAGAGM RGRQWLRKRVEVVCTGRSANTVCAGV RAAGLVEKSPPPSLSRMGRRFRFCGDL CPDRVLAEISTLAKMVECTGSTLGGGGY KKILKLTADAKFVEEHEGKKDIDSPTFLS SASSWWS
7416	15467	A	8067	330	452	
7417	15468	A	8068	3	347	
7418	15469	A	8069	3	1279	
7419	15470	A	807	165	1222	QSKRLNAKRYLLTDNVVKLKEFQKKV AVACNLSGKTETYFRNLKKKLTONKLL KGELITLLHLCESRDHVELAKNVIYRYH AENKNFTLGEY*FGPLFVRLCYQLDLEE SAGELMKDQHLRGFFSDSTLFNLMMDL FIKGKYKSALQVLIEMKNQDVKFTKDTY VLAFACYKLNSPESFKICTTLREEALLK GEILSRRASCFVALALNQNEMAKAVSI FSQIMNPESIAINLNIHIIQSNMLENLK TLKNAAEGNLSKFVKRHVFSEEVLAKE REKVKDVPALVAKFDEIYGTLHITGQVT TDSLDAVLCHTPRDRKSHLLNKRMS RRTFQPLSQSLAE
7420	15471	A	8070	1	496	LLGVAPSRAFQEEILR/DRASFHE/RPNLF ALKHPTSKAECTAEKCYRVTKGRGIFPS GSPFKSVTLEDGKTFIPGQGNNAVVFPG VALGVIAGGIRHIPDEIFLLTAEQIAQEVF EQHLSQGRLYPPLSTIRDVSLRIAIVLD YAYKHNLDSYTPWPEAMNVQTV
7421	15472	A	8071	228	448	

7422	15473	A	8072	3	1877	EGEDRGLPRTMGAAALGTGTRLAPWPGR ACGALPRWPTAPAQGCHSKPGPARPV LKKRGYDVTRNPHLNKGMAFTLEERLQ LGIHGLIPPCFLSQDVQLLRIMRYRERQ SDLDKYIILMTLQDRNEKLFYRVLTSDV EKFMPIVYTPTVGLACQHYGLTFRPRG LFITHDKGHLATMLNSWPEDNIKAVVV TDGERILGLDGLGCGYMGIPVGKLALYT ACGGVNPQQCLPVLLDVGTNNEELLRDP LYIGLKHQRVHGKAYDDLDEFMQAVT DKFGINCLIQFEDFANANAFRLNKYRN KYCMFNDDIQGTASVAVAGILAALRITN NKLSNHVVFVQGAGEAAMGIAHLVMA LEKEGVPKAEATRKIWMVDSKGLIVKG RSHLNHEKEMFAQDHPESNSLDEVVRL VKPTAIGVAAIAEAFTEQILRNMAFVR RAPIIFALSNPPRKAECTAEKCYRVTEGP RGFFASGSPF*GVLIWEMGKTFIPGGRG NNAIYVFPGVATGVIAAGGIRHIPDEIFL LDSRAKLPQEVSEQHLASQGRLYPPLSTIR DVSLRIAIVLDYAYKHNLVSYYPEPKD KEAFCKIPGSYTPDYDSFYT/VDSYIWAQ GKAMNVQTV
7423	15474	A	8073	325	587	
7424	15475	A	8074	124	343	
7425	15476	A	8075	32	487	SRRHGSSLWGKVNVEDAGGETLGRLLV VYPWTQRFFDSFGNLSSASAIMGNPKVK AHGKKVLTSLGDAIKHLDLKGTFQAQLS ELHCDKLHVDPENFKLLGNVLVTVLAJH FGKEFTPEVQASW/QEDGDWSGQCPVLQ IPLSSLPMMQSFQG
7426	15477	A	8076	3	573	FCPRGQEFGEKNKLLVPDAHGVISQRT KATITSLWGKVNVE/DAGGETLGRLL VVYP\WT\QRFFD\SFGNLSSASAIMGNP\ KVKAHG\KKVLTILGRCQQSTLDDLKGT FAQL\SELHCDKLHVDPENFKLLGNVL VTVLAJHF\GKDFTPEGCRASW\QKMGD VFSGQCPVLQ\IPLKPLGP*IQ\SFQG
7427	15478	A	8077	2	347	
7428	15479	C	8078	213	263	MGFHHVSQDCLDLTS*
7429	15480	C	8079	637	1452	MGIAAASVLGDLAVVFGMHVPAQADG QDHPQELDHGHTHAHAEDDAQVLLQPR LHLLHAALLVHRPVLRVVATLGPVAGG LAEALPHRKAVVLFPLDFAGTGVGDLR AIHEL SVVCPVVEADPAAALHLSLHVVP GILQAVLATAVVVSNELSHDATHLLQL AHVEVEEGPGRHLGNEDQEQESKVQPQ QAADLVDGADAAQEAHEHSDCPHADED IGPHPKRAGGGLQDRDETALVGDPHPE AQDHCAQDKEDQVEEEEKVFGDFDTG*
7430	15481	C	808	324	500	MGNWGRSSFLKLQNLVFLKMRSDQA QWLTPKIPALWEAEAGSSEVRSLSAW STW*
7431	15482	A	8080	226	314	
7432	15483	A	8081	2	350	KTLLFFFFRFEPHNLLTSMICGLVYNQP PPQHLVHILLKRRIWPQGNILGINKKRP TVAHTCNPSTLGGRGGRITRSGVRD*PG QHSESPSLPTIQKNYPGVMAGACNPSYS GG
7433	15484	A	8082	172	287	IVYASEEKI*TFQEQGWPGAVAHTCNPST LGGRGGRITRSGDRDHPG*HRPP
7434	15485	A	8083	14731	15030	IAGCRPGAVAHSCNPSTLGGRGGQI/TLR SGV*DQPGQYGETPSLLKIQLGRRGGR RLKSQLLREAEAGESLEPGRQFAVSRHR ATALQPGNRARLHLKK
7435	15486	A	8084	1	193	
7436	15487	A	8085	1	346	
7437	15488	A	8086	3	522	

7438	15489	A	8087	1	840	HMELPYGTLTDDDEMRRNLNIPVLQDDGFL FLWVTGRAMELGRECLNLWGYERVDEII WVKTNQLQRIIRTGRTGHWLNHGKEHC LVSSGAQFNWSTKKNHLISY*EKVQR CGFIR*SVILW*AGGVKENPQGFNQGLD L*CDRS*GMCFSGLQSFHIFVGYQLFMV GCILIPRFLI*IINIIGKGLGAILCNLKKQ LVFIS*VRSTSHKPDEIYGMIERLSPGVTR KIELFGRPHNVQPNWITLGNQLDGIHLLD PDVVARFKQRYPDGHSKPKNL
7439	15490	A	8088	13	323	
7440	15491	A	8089	3	218	
7441	15492	A	809	1734	1910	NWVGQQQEGREFFQV*WATDLKSA*GE EIEPDIPKLKPGGQKWETGLRFLHFDSK WFF
7442	15493	A	8091	3	332	
7443	15494	A	8092	1	1431	MHKAGLLGLCARAWNSVRMASSGMT RDPLANKVALVTASTDGIGFAIARRLAQ DGAHVVVSSRKQONVDQAVATLQGEGL SVTGTVCHVGKAEDRERLVATAVKLHG GIDILVSNAAVNPFFGSIMDVTEEVWDK TLDINVKAPALMTKAVVPEMEKRGGGS VVIVSSIAAFSPSPGFSYNNVSKTALLGLN NTLAIELAPRNIRVNC/LAPGLIKTSFSRM LGEPEDCAGIVSFLCEDASYITGETVVN LSVMFTGGGVCRAASWKEGGTGTPTPT RESRQREPGETSSDTQENKVNGLPA NPQRPAEAGPVRRKTNKQKGIASAKD SINIRTGKDIHTKTPSIGHQHQRPKVDKT TKMERNQSKKAETSRNQNVSSLPKEYKS SPAREQNWENKFDDLTDVFSRRSVITN YTQLKEHVLTHCKEAKNLDKMLNEWLT RMKNLEKSLNDLMELITTVQELHEGYTS FNS
7444	15495	A	8093	195	434	
7445	15496	A	8094	43	1601	SMHKAGLLGLCARAWNSVRMASSGMT RRDPLANKVALVTASTDGIGFAIARRLA QDGAHVVVSSRKQONVDQAVATLQGE GLSVTGTVCHVGKAEDRERLVATAVKL HGGIDILVSNAAVNPFFGSIMDVTEEVW DKTLDINVKAPALMTKAVVPEMEKRGG GSVVIVSSIAAFSPSPGFSYNNVSKTVLLG LTKTLAIELAPRNIRVNCLAPGLIKTSFS RMLWMDKEEESMKETLRIRRLGEPE DCAGIVSFLCEDASYITGETVVNLSVMF TGGGVCRAASWKEGGTGTPTPTPRESR QREPGENQARSSPRMALRPEFPESASTS WMGPEPVGNRERPCPKARKVGASPRAL RRLGSATRMLSRAALRAGVGARAPRG GGRGAHATATVWSGLASAAALTARALL KRSLACAAAPQRCGWRRLLCSSLGSRG QGGQAHRAHLRVVRYGTASVFGTPRL VASIQHVPSGPAPRPGASHPATPSIQL RQPLHLSPDIAVPGASSAGAGA
7446	15497	A	8095	2	172	
7447	15498	A	8096	3	823	
7448	15499	A	8099	346	461	
7449	15500	A	81	457	489	PP*ITLG*KTCSQARWLMPIPTLWKA EVGRSLELRSLRPAWATRRNPSTKN/LKIS WGRQGSSELRSRHCTPAWQHSETPI
7450	15501	C	810	226	306	MTTSPPPSALQKKEMEILPVILRVPS*

7451	15502	A	8100	3	1560	SSLWRRQPELKAYRTMEYMAESTDRSP GHILCCECGVPISPNPANICVACLRSKVDI SQGIPKQVSISFCKQCQRYFQPPGTWQIC ALESRELLALCLKKIKAPLSKVRVLDAG FVWTEPHSKRLKVKLTIQKEVMNGAILQ QVFVVDYVVQSQMC GDGHESEKLKDF WK\AVIQVRQKTLHKKTFYYLEQLILKY GMHQNTLRIKEIHDGLDFYSSKQHAQK MVEFLQCTVPCRYKASQRLISQDIHSNT YNYKSTFSVEIVPICKDNVCLSPKLAQS LGNMNQICVCIRVTSIAHLIDPNTLQVAD IDGSTFWSPFNSLCHPKQLEEFVIECSI VQDIKRAAGAGMISKKHTLGEVWVQKT SEMNTDKQYFCRTHLGHLLNPGDLVLG FDLANCNLNDHEVNMNSDRVPDVVLI KKS YDRTKRQRRRNWKLKELAREREN MDTDDERQYQDFLEDLEDEAIRKNVNI YRDSAIPVESD TDDEGAPRISLAEMLEDL HISQDATGEEGASMLT
7452	15503	A	8101	1	171	
7453	15504	A	8102	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAAI/CLPGHCHGSRVEVTYETHQCGL VGLKLLRGGREQSDRGGSGLT
7454	15505	A	8103	48	532	NLMNICRGPCLLP GAPFMRDLAAVA/SV GLP/LVRRQAQVAAGRVLVVALFEGCG GLHSRLDGAAICLPGHCHGSRVEVTYE APQCGLVGLKLLRGGREQSDRGGSGLT *DAQLGPGAHEHPEIRAAWE*TAVIISLV SLEPRDQGGRVARLGAREAINP
7455	15506	A	8104	3	421	AAEASVGL/PLRRQAQIAAGRVLVVAL FGGCGGLHSRLDGAAICLPGHCHGSRVE VTYETHQCGLVGLKLLRGGREQSDRG SLGLT*DGQLGSAEDYTISSCPHLTGIV GLIPGLDSADQGGRVPRLGARESVRDT
7456	15507	A	8105	94	582	LSHPLPL/LGRQAQIAA/GRVLVVALGG CGGLHSRLDGAAICLPGHCHGSRVEVTY ETHQCGLVGLKLLRGGREQSDRGGSGLT T*DGQLGSAEHQSVSVPSLTVIISLILRL EVGDGEVAVSPRAGAREAIRNSAPLVVA STTFKPHQVPRGLSCLLLMPRDVVPTVS TAQSAGEPDRGSQSGSRGRG
7457	15508	A	8106	2	332	GSLQGLPGQSFSGGLPL/LGRQVRVAAG RVLVVALFGGFGGLHSRLDGAAICLP HCHSSRVEVTDQTH*CGLVGLELLRGG EQSDSGVGLGLTQDGLRSTSEDKVC
7458	15509	C	8107	30	653	MTCSPLLLTLIHCTGSAHVSILTQPPSV SAAPGQQTISCSGSRNLVGNFYVSWYQ QLPGTAPKILIYDNDKRPSGVPARFSGSK SGTSATLAI TGLQTGDEANYCYGAWDTS LDNWVFGGGTEVTVLGQPKAAPSVTLF PPSSEELQANKATLVCLISDFYPGAVTVA WKADSSPVKAGVETTPSKQSNKYAA SSYLSLTPEQ*
7459	15510	A	8108	484	632	PWSHFRRF*LTMRIFIEGLLSAGRRA/W PWGGRRDPSGILQL*SPV\GGVRDENL* TFCRGHCLLHGAPFMRDLAAVAVFGLP LLRRQAQVAAGRVLVVALFGGFGGLHS RLDGAAICLPGHCHSSRVEVTDQTH*CG LVGLELLRGGREQSDSGVGLGLT*DGDL GPTSEDSKGATTSKRAAVIISLVVSLEPR DCQGGRVGRHGAREAINP

7460	15511	B	8109	27	1337	MAWTPLLLLFPLLLHCTGSLSQPVLQSS SASASLGSSVTLTCTLSSGHSYIIAWHQ QLPGKAPRSLMKVEGDGSYKTGRGVDP RFGSSSGANRYLSISNFQSEDEADYYCQ AWDSSTAHS DTGRCGIVGRPPVRQCWP LLLLGLAMVAHGLLRPMVAPQSGDPDP GASVGSSRSSLRSLWGRLLLQPSQPRAD PRCWPRGFWSEPSQLCYVFGTGTKVTVL GQPKANPTVTLFPPSSEELQANKATLVC LISDFYPGAVTVAWKADGSPVKAGVETT KPSKQSNNKYAASSYLSLTPEQWKS HRS YSCQLQWGLGLGASQGGFLYEPVSQCV VFGGGTKLTVLGQPKAAPSVTLFPPSSEE LQANKATLVCLISDFYPGAVTVAWKAD SSPVKAGVETTTSPSKQSNNKYAASSYLS LTPEQWKQAQKLQLPET*
7461	15512	A	811	168	258	GHLGPRQKQARGL*GHRVQV LHN YVI PM
7462	15513	C	8110	54	410	
7463	15514	A	8111	1	175	
7464	15515	A	8112	1815	2017	GQGAV AHTCN PSTLGGQGGRITLRSGV QNQPDQHGETL SLLNISGVWWRAPVIAA FQEAETGESLEP
7465	15516	A	8113	1109	1482	
7466	15517	A	8114	266	399	
7467	15518	A	8115	6	361	
7468	15519	A	8116	688	1127	
7469	15520	A	8117	2	311	
7470	15521	A	8118	2	51	
7471	15522	A	8119	203	365	
7472	15523	A	812	229	434	TEELKRCRQTLPSGCGVLPWRARLAVG VS/GRRGRSSSPMLTPSAAPCGNPGSLTS NLPAAGCKPSCQAW
7473	15524	A	8120	152	314	
7474	15525	A	8121	11	380	RLHRFFLGESEQSPASSSSSSSSSLTPSQ TRQHGPLRSIMKDLHSDDYEESEYVDD NDNDSKMERPANR*RTRSRVSLSDGSD SESRTSS*PLHYEPPPLLYTNNNQILEVE SPITHSL
7475	15526	A	8122	124	1924	ITAEGRRRGYHTTPQQTSGPPGMAS CSVQVKLELGHRAQVRKKPTVEGFTHD WMVFVRGPEHSNIQHFVEKVVFHLHESF PRPKRVCKDPYKVEESGYAGFILPIEVY FKNKEPRKVRFDYDLFLHLEHPPVNH LRCEKLT FNPTEDFRKLLKAGGDPNR SIHTSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSTSFSPHKLMEHKEKP SKDSREHKSFAKEPSRDHNKSSKESKK PKNKPLKEEKIVPKMAFKEPKPMSKEP KPDNLLTITSGQDKKAPSKRPPISDSEEL SAKKRKKSSSEALFKSFSSAPLILTC SAD KKQIKDKSHVKMGKV KIESETSEKKKST LPPFDDIVDPNDSDVEENISSKSDSEQSP AS/SSSSSSSFHTIPGPGQQGPLRSIMKD LHSDD/NEEEADEAEDSDNDSEMERPVN RGGSRRRV\SLSDGSDSESSASSPLHHE PPPLLKTNNNQDSWKWKSPKQSK/SD* GKLNKGE*QGLT*MELVGAFTGRFIDF EERHILQQIVNLIETGHFHITNTTFDFD LCSLDKTTVRKLQSYLETSGTS
7476	15527	A	8123	2	319	
7477	15528	A	8124	1	323	
7478	15529	A	8125	31	118	
7479	15530	A	8126	1	4938	
7480	15531	A	8127	472	4356	
7481	15532	A	8128	2	236	
7482	15533	A	8129	503	638	

7483	15534	A	813	1060	1542	GRDMVAPDASWKEASGCNAPARICPGQ AFRANGCSDPTLGIQHQLFRSRLSPKVL GPVGGPWELGGE*DEAPSASFSSHWEVL GRLLVGASGPSVKQEPAAALERARVPGD AARRQPRDRKGPPGPPCCSEHPAPVRAP LVAGLGDAGSGAPRAKLGVM
7484	15535	A	8130	464	2848	GETGMSTALHTTTVAMRCPMLGGGGGP TYGPPQPWGHDPDVHIMQHHLVPIQARLG SIAEIDLGVPPVPMKTFKEFLSLDDSDV ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARALQ NRLRVFLSLMETGWFDNLLDIDKADAI VKMLDAAVIKMEGGTENDLRILEQEEEE EQAGKPGEPSKKEEGRAGAGLDGERK TNDKDEKKEDGKQAENDSSNDDKTKKS EGDGDKEKKEDSEKEAKKSSKRNK HSGDDSFDEGSVSESESESGQAEKEE EAEALKEKEKPKEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEIIISLCK RYPGFMRVALSEPQERRFFRRGWVTFD RSVNIKEICWNLQNIRL/RECELSPGVNW DLTRRVNRINGITQHKQIVRNDIKLAACL IHTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAAAAEELGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEEKLTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFA RKHIFNKHAEKIEEVKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQILPPGLTPGLP YPHQTPQGLMPYQGPRPILGYGAGAVR PAVPTGGPPYPHAPYGAGRGNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDL APDDVDFF
7485	15536	A	8131	2	433	
7486	15537	A	8132	1073	3545	GETGMSTALHTTTVAMRCPMLGGGGGP TYGPPQPWGHDPDVHIMQHHLVPIQARLG SIAEIDLGVPPVPMKTFKEFLSLDDSDV ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARALQ NRLRVFLSLMETGWFDNLLGH*TKLI AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLDGGE RK'TNDKDEKKEDGKQAENDSSNDDKTK KSEGDGDKEKKEDSEKEAKKSSKRN RKHSGDDSFDEGSVSESESESGQAEKEE KEEAEEALKEKEKPKEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEIIIS LCKRYPGFMRVALSEPQERRFFRRGWV TFDRSVNIKEICWNLQNIRGARSLINRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRRVNRINGITQHKQIVRNDIKLAAKLI HTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAAAAEELGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEEKLTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFV RKHIFNKHAEKIEEVKKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQIIHVVRVVL PPGLTPGLPYPHQTPQGLMPYQGPRPIL GYGVPTGGPPYPHAPYGAGRGNYDAFR GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDFF
7487	15538	A	8133	188	391	

7488	15539	A	8134	1	998	MAVMLHSAKWPLPVLQQGLTMQPPLPS KHISERSEEDSRQPLYSVILIFYEAGFAIL VFDKTDFFQPKKVKRDKEGHYIMVKGSM QQEELTILNIYAPNTGASSFIKQVLGDPQ RDLDSHTIIVGDFNTPLSILDRLMRQKIN KDIQDLNSALDQVDLIDYRTLHPKSTEY TFFSAPHHTYSKIDHIIGSKTLLSKCKRTE IITNSLSDHSAIKLELRIEKFTQNHTTTWK LNNLPLNDYWVNNEIKAENKFFETNEN RDTMYQNLWDTAKAVFRGKFIALANGH RRK*ERSKINTLTLQLKELEKQEQTTHSKA SRRQEITKIRAELEIDS
7489	15540	A	8135	1	1674	
7490	15541	A	8136	3	361	
7491	15542	A	8137	3	174	
7492	15543	A	8138	3	326	
7493	15544	A	8139	1	82	
7494	15545	A	814	166	437	ADHLKSGV*DQPGQHGEILSLLKLQ*FPG RGG AHL*SQLLGRLKQENHLNPGGGGC SEPRLCHWTPVRATVGDSVQKK*KSQD GPRAKLG
7495	15546	A	8140	2	372	
7496	15547	A	8141	1	352	
7497	15548	A	8142	2	395	
7498	15549	A	8143	4274	5256	HTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLQHKDDNPNLPRLVRPEVD VMCTAFHDNGETFLKK*VIRCL*FKIKK HGVTP*ANTL*KLP*QKYFQH*DLEVLL* *FFKEVVFDTTKFYTAKNMIKDILKFIET GYNLSQKFIDKFFNVFRRYVYVMVVIID FVLVSNILPKFNHLCHTHTHTLTLFST YLNDRDKTIMCKLSLIG*LAESLEFGGS GENVDYNYFCNIVCYRK/ADCFSFLKFR YLYEIARRHPYFYAPELLFFAKRYKAAF TECCQAADKAACLLPKVLCTRIEKKSL SNLILSILWDLGTLSV
7499	15550	A	8144	23	136	
7500	15551	A	8145	1	248	
7501	15552	A	8147	3	231	
7502	15553	A	8148	30	217	
7503	15554	B	8149	49	754	MAGAAPRLPWSRPHGSCGWWMQPLQ GPGRRAVAAAWEVATPVFMPVGTQAT MKASRPNSWTLWVAASAWEYLPSSGSK AGGTAAFPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCRSRMRWAPGVVT GALLQVNPLAGPVHAAHQRPDKQNLFA IIQVGWQTQISGPPALKRFGSAWHSRAFLT HCCTVTTRPRCTTSRPHRLPAELMSAV RTSIVEKRFPDSCGTSWAPX*
7504	15555	A	815	3	238	SGDRDHPG*HSETLSLLKIQQIAGRGGG RL*SRLRLRLRQENGVSPPGGACSEPRS HHCTPAWETERDSVSKKKKKKL
7505	15556	A	8150	1	593	RQSRWREQLPRLSWRLVPRIMRLVAEC GRSRARAGELWLPHTVATPVFMPVGT QATMKGITAEFLDALGCRICLGNTYHL GLRPGPELQKANGLPRLS*IWPSLILLN GTAAVFQMVSLVSLSEVTEEGVFRSPY DGNETLLSPEKSVQIQNALGSDIIMQLDD VVSSTVTGPRVEEAMYSIRWLDRCICS H
7506	15557	B	8151	374	613	MTALDLFLTNOFSEALSYPKPTKESMY HSLTYATILEMQAMMTFDPQDILLAGN MMKEAQMLCQRHRRKSSVDSFSSSL*

7507	15558	A	8152	2	1922	VETPPQGSVHSGHLGSVVGDPHTGTGN AGERGPRGKGARVLALDSGGMDSSPSLP LIRTPESSLHEALDQCMTALDLFLTNQFS EALSULKPRTKESMYHSLTYATILEMQA MMTFDPQDILLAGNMMKEAQMLCQRH RRKSSVTDSSFSLVNRPTLGQFTEEEIHA EVCYAECLLQRAALTFLQGSSHGGAVRP RALHDP SHACSCPPGPGRQHLFLQDEN MVSFIKGGIKVRNSYQTYKELDSLVSQSS QYCKGENHPHFEGGVKLGVGAFNLTL MLPTRILRLLEFVGFSGNKDYGLLQLEE GASGHSFRSFLCVMLLLCYHTFLTFVLG TGNVNIEEAEKLLKPYLNRYPKGAIFLFF AGRIEVIKGNIDAVSDGGPGRGWGSLGV SQTSRKSGTCDILDRIDWGRGGGPREN QPESRGRRGPSGRAAWEDKGGGGICGA WDFDWEI*DCSIAVEGGGGRCLEAEVR KAHLFRA*RLGWSLVPLHYSSLLLFHF VTKNQSPRRGLYLSPTSCKT*EVKPGLE ARSPGSWGPT*A*HRAGPLCPGGVPVCC GVGRFGGCRGVGAGWAPVRLTRRCLQ AIRRFEECCEAQHWKQFHMCYWEL MWCFTYKQGWKMSYFYADLLSKENCW SKVG
7508	15559	A	8153	1	285	
7509	15560	A	8154	3	409	
7510	15561	A	8155	1	390	
7511	15562	A	8156	17	221	
7512	15563	A	8157	2	366	
7513	15564	A	8158	1270	1692	
7514	15565	A	8159	2	261	RPRRSSTS*SPH*PPAVAAAPSGAPPWG LSCPRRPRAPPAAAPPEALGQGPSTRG AAEVAGAAGSRPPQPFYSDFQSRFCCIJS
7515	15566	A	816	4005	4345	SQHFRPRRADHLRSGVQDQPDQHGET PSLLGGRGGGRITKSGDRDHPG*HGETPSL LKMQ/EKLAGRGGGRLWSQLLGRLRQE NGVSPGGRACSEPRSCHCTPAWLTEQDS VSKK
7516	15567	A	8160	44	463	
7517	15568	A	8161	2	318	
7518	15569	A	8162	1	349	
7519	15570	A	8163	38	368	
7520	15571	A	8164	43	376	LSMANGPPHCTECTAFPRESGKNCKVCI FNTDGTLVAVRTGQKADIISVSSKGLLH SFYLLKAVCLEFSPKNAL*TGLPYSTSK DATAGIPNLQLYDVKTGTCLKSFLQK
7521	15572	A	8165	22	192	
7522	15573	B	8166	852	931	MYSPSDPRTVKSGVDGAMLSRKEKPLG*
7523	15574	A	8167	1	202	
7524	15575	A	8168	2	330	
7525	15576	A	8169	1	281	AAWILKARALTEMVYIDEIDVDQEGIAE MMLDENAIAPSSPTITQAGRPITGFLRPS TQSGRPGTMEQAIPTPTAYTARPTSSS GRFVRLGT
7526	15577	B	817	1	9234	MGAPTLPPAWQPFLKDHRISTFKNWPFL EGCACTPERMAEAGFIHCPTENEPDLAQ CFFCFKELEGWEPDDPIEEHKKHSSGC AFLSVKKQFEELTLGEFLKDRERAKNKI AKETNNKKKEFEETAKKVRAIEQLAA MD*

7527	15578	A	8170	1	769	QAAWILKARALTEMVYIDEIDVDQEGIA EMMLDENAIAQVPRPGTSLKLPGTNQTG GPSQAVRPVTSHEKPITGFLRPSTQSGRP GTMEQAIRTPRTAYTARPITSSSGRFVRL GTASMLTSPDGPFIN*SRLNLTKYSQKPK MAKALPEYIFHHENDVKTALELAALSTE HSQYKDWVWKVQIEKRYRLGMYREA EKQIKSSLKQQEMVDTFLYLAKVYVSLD QPVTALNLFKQGLHKFPGEVTLCLGIARI YE
7528	15579	A	8171	2441	2706	FCFGLSCSLLPFFFFFFFEMESRSVAQAG VQWCDLSSLHPLPPGSSNAPASASRVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7529	15580	A	8172	1258	1733	ILFWIIQLNLECSEFSWRLRQGRGIMLFFF PFLFFETESHSAQTGVQWCDLGSLLQP PPPGLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVQASLKLPTSGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHHV GQAGLELLAPSDPPA
7530	15581	A	8174	196	390	
7531	15582	A	8176	84	307	
7532	15583	A	8177	3	383	DIKILIASPSATHIHKETTRATSSPYRDTQ SRTASPNRAGKGVIEQTEKSHPRSPNVLS AALSQRTTVPEEELNPKILALQNAQRKR KMEHDGSLFQAVGI/DLACRL/LGQSM ESGLPQLTSYDCEV
7533	15584	A	8178	2	691	
7534	15585	A	8179	2	202	
7535	15586	A	818	1577	2233	SGCLLSPPSVGRQNSPVELGGAGLSRAG WAPQERGRAALLISP GPNVRGGPDWLP SVLQMRGLPLWDLGGRPDVGRMSPGGR PGSCWATQLRFHISLAPLFSWAGRSGS RLNPSTLGGRRGPITRSGDRDHPG*HGET LSLLKIQKISQACWR/CACSPSYGRLRQE NGVNPGGGACREQRS GHCTPAWATEQD SVSKKKKKKSGSTIRLKHILHKII
7536	15587	A	8180	1	62	
7537	15588	A	8181	116	333	
7538	15589	A	8182	55	351	QWSYLPQVMFTGENIPVHPHVYSNGHI CLSILTEDWSPALSVQSVCLSIHMLSSCK EKRRPPDNSFYVRTCNKNPKKTKWWYH GKFEHRDIHKGKKM
7539	15590	A	8183	3	474	DGSIMASMQRKRLQKELLALQNDPPGM TLNEKSVQNSITQWIVYMEGAPCTLYEG EKFQLLFKCRRRYPFDSSQGMFTGENIT DHPHVYSNGHMLCLSLTKNWPALSVQS VCLSIHMLSSCKEKTDDHPDNSFYVRT CNKNPKKTKWWYHDDTC
7540	15591	A	8184	1	232	
7541	15592	A	8185	3	367	
7542	15593	A	8186	1	203	
7543	15594	A	8187	2	333	ARVKRLGMFNIQHCKKLSSWVLLMKYL GNATAIFFLPDEGKLQHLENELTHDIHK FLAETFLHFPKLSITGTDLKSVLGQLGI TKVFSNGADLSGVTEEAPLKLKSKAD
7544	15595	A	8188	1	853	EYRRFLVDRHLQLTTGNGLFLSEGLYL DKFLEDVGRLYHSEALTVNFGDTEEAKK QINDYVEKGTQGIKVDLVKELDRDVTFA LVNYIFFKGKWERPFVKDTEEDFHVD QVTTVKVPMMKRLGMFNIQHCKKLSSW VLLMKYLGNATAIFFLPDEGKLQHLENE LTHDIHKFLENEEDRRSASLHLPKLSITGT YDLKSVLGQLGNTKVFGSGSQHEKRRRT EATKECRKTQNNRGTERVATAT*THNQ KRKRAQQGNTREKENGKQRQEGPFVFL MIEQN

7545	15596	A	8189	3	157	
7546	15597	A	819	151	454	FQKIGPGAVAHACNPSTLGGRSRRITRSG GRDHPG*HSETPSLLKIQKLAGRGGGCL *SQLLWRLRQENGVPNGGGACSEPRSRH CTPAWVTERDSVSKKK
7547	15598	A	8190	3	362	
7548	15599	A	8191	3	333	
7549	15600	A	8192	174	361	
7550	15601	A	8193	1	1143	VRCRPVRNSRVDPRVRMAAVFLVTLYE YSPLFYIAVVFTCFIVTTGLVLGWFGWD VPVILRNSEETQFSTRVFKKQMRQVKNP FGLEITNPSSASITTGITLTTDCLEDSSLTC YWGCSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYVILSSDIPISTEN*T SYG*SVANLLIILGILEACLLQNKHSPCI RTCSVYRISVSGTGFAFRLIYPLALIURL LMDKVPLTY*SFLGY*KHVYCFRISTPQA LEDALWSEYLYQEYHFIKDSKEEYQC LPRDTNIDDFGTVPRSRYPLVALLTSLDE DDREIYDIISMVSVIHIPDRYKLSRILY QYLLLAQQGFHDLKQLFMSANNFTPS NNSSE
7551	15602	A	8194	2	499	
7552	15603	A	8195	3	486	
7553	15604	A	8196	80	1281	LPAQKLDTMCEDETTALVCDNGSGLV KAGFAGDDAPRAVFPISVGRPRHQGVM VGMGQKDSYVGDEAQSKRGILTLKYPIE HGIITNWDDMEKIWHHTFYNELRVAPEE HPTLLTEAPLNKANREKMTQIMFETFN VPAMYVAIQAVLSLYASGRTTGIVLDSG DGVTHNVPIYEGYALPHAIMRLDLAGRD LTDYLMKILTERGYSFVTTAEREIVRDIK EKLCTYVALDFENEMATG/PSIHPPMEKS YELPDGQVITIGNERFRCPTLAFQPSFIG MESAGNHETTYNISIMKCDIDIRKDLAYA N/NVMFGGHPRLYPWEFAD/RMQERDSP ALAPQAPMEDQGFIRPRRSKYSVWIG RLPSWPSLSHLPKMWITEAGSTDEAGP FPSSNRKCF
7554	15605	A	8197	2	228	
7555	15606	A	8198	1	369	
7556	15607	A	8199	1	416	
7557	15608	A	82	999	1523	WEMVEIWSYSSSEQEHQLIKLSYQRIKPL PHAHWWPFPNPSGLPPEASK*PPG*TLALGI FLGKKA*LQTFPLNYIRLENMQPRHGG CPVIPTLWKAEVGRSLELRLRPAWATR RNPISTKNPKLAGGARHL*SPGTPEAEV GGSPEP/GGRQGSSELRSRHCTPAWQHSE TPIS
7558	15609	A	820	1362	1647	
7559	15610	A	8200	2	396	
7560	15611	B	8201	1	555	MESTYMPINSGLDKENVESECKAYNPRP FCKTYTMDKQPLNTGEQKDMTEFFTDLI TKIEEMSPESLRCCELHLHAENLSRRV WELLMLLPTCPNMLMAFQNISDEQGSYS DLYPDSDDSSDQVENSKNWSCKISSN FTSSSKTIWYFSAVWEQLRYTLDNNVL KKSIVIIQKDSSEYED*
7561	15612	A	8202	1	901	
7562	15613	A	8203	1	407	

7563	15614	A	8204	2	1149	PDLELPRARPQLVNSPGADKMETNSSLP TNISGGTPAVSAGYLFLDIITYLVEAVTF VLGVLGNGLVIWVAGFRMTHVTITISYL NLAVADFCFTSTLPFFMVRKAMGGHWP FGWFLCKFVFTIVDINLFGSVFLIALIALD RCVCVLHPVWVTONHRTVSLAKKVIIGP WVMALLLTLPVIRVTTVPGKTGTVACT FNFSPWINDPKERINVAVAMLTVRGIIRF IIGFSAPMSIVAVSYGLIATKIHKQGLIKV QVRP*GALSFVA\KAFFLCWSP\YQ\VVV P**PTSQESREVNCKGMYQRKLGIA\VDV NKVPLAFFNS/CAFNPMLVLF\MG\QDFR ERLIHALPAKSGRGPLTEDFNPKVPVQLT NSTLPSAEVALQAK
7564	15615	A	8205	2	386	
7565	15616	A	8206	2	294	
7566	15617	A	8207	541	711	SEVSAMVFLFFF/CFFEMESRSAAQAGV QWCNLGSLQALPPRFTPFSCSLPSSWD Y
7567	15618	A	8208	2	1730	
7568	15619	A	8209	1	183	
7569	15620	A	821	10289	10708	SQHFGKLRQEDHLRSGVREQPGQHGT PYLLKIQKLARRSGACL*SOLLRLRQEN RLNPGGVGCSEPRLLHCTTAWTLQ*DPV SKKLKKKYIERQRYHQHMKHPWSTKIQ YVCMDG*HRSVEKQIIQTLCMFVFTHTY
7570	15621	A	8210	3	320	
7571	15622	A	8211	2	198	
7572	15623	A	8212	110	363	
7573	15624	A	8213	1	849	
7574	15625	A	8214	1	993	
7575	15626	A	8215	23	627	
7576	15627	C	8216	79	171	MDISGTKCDFTVQVQLRFCLSETKATQP TN*
7577	15628	A	8217	3	630	
7578	15629	A	8218	1	188	
7579	15630	A	8219	1	2295	
7580	15631	A	822	662	766	
7581	15632	A	8220	143	5972	
7582	15633	A	8221	3	753	
7583	15634	A	8222	57	272	
7584	15635	A	8223	1	218	
7585	15636	A	8224	180	293	
7586	15637	A	8226	3	145	
7587	15638	A	8227	16	546	QLNGRSIRHEVMSHRKFSAPRHGSLGFL PRKRSSRHGKVKSFPPKDDPSKPVHLTA FLGYKAGMTHIVREVDRPGSKVNKKEV VEAVTIVETPPMVVVGVGVVETPRGLR TFKTVFAEHISDE/CRLPLRQKKAHLME IHVNGGTVAEKLDWARERLEQQVPVNP VFGQDEMIDVI
7588	15639	A	8228	3	348	TRHIVREVDRPGSKVNKKEVVEAVTIVE NTPMVVVGVGVVETPR/GLRTFKTVFA EHISDECKRRFYKNWNKSKKIDLKFIDTT SKLCHGRLQTMEKKAFMGPLKKDRIA KEEGA

7589	15640	A	8229	1	956	VNHAPAHASDGVMShRKFSAPRHCSLG FLPRKRSSVRHRGKVKSFPMDDPSK\PVH LTAF\LGKAG\MT HIVRE\VD R\PGSKVN KK\EVVE\AVTIV*DTTHWCLLGIVGYVG NPSEGLRD\TFKTCLLEHISY*MPRRRFL *RIWALKS*EGRPLPKYCKEIGKDED\GK KPAWK KDFQQH*KKLLAQVHPCSIQT Q\MRLLPL\ROKKAHLMEIQVNGGTVA RESWDWAREKLE\QQVPVNQVFGQDEM NDV\GVTKGK\GFKGVTRS\WPTN*LPFK A\HLG\LSRVACFGAWHPARAHWHVAR AGQKGYQPYTLLVHSDL
7590	15641	A	823	749	853	
7591	15642	A	8230	1	375	
7592	15643	A	8231	1	399	
7593	15644	A	8232	2441	2706	FCFGLSCSLPFFFFFFFEMESRSVAQAG VQWCDLSSLHPLPPG\SSNAPASASRVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7594	15645	A	8233	1275	1749	ILFWIIQLNLECSEFSWRLRQGRGIMLFFF PFLFFFETESHVAQTGVQWCDLGSLQP PPP\GLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVGQASLKLPSTGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHHV GQAGLELLAPSDPPA
7595	15646	A	8234	3	200	DALAFVIKVF AEEVDGCSVT TGS/HNH SVASGSNHRTRFCFTVYLLSIVSWRY*SC RCRECRGRAF
7596	15647	A	8235	1	1214	
7597	15648	A	8236	24	183	
7598	15649	A	8237	256	491	
7599	15650	A	8238	243	385	
7600	15651	A	8239	3	403	SCYGFNVRGQVSDGGQLRSINGELYAP LQH\NHVNVEGATHKQVVDLIRAREKEL ILTVLSVPPHEADNLYPSDDSLGQSFYDY TEKQAVPISVPRYKHVEQNGEKFVVYN VYMAGRQLCSKRYRQFALHQN
7601	15652	B	824	1	855	MDVVDPDIFNRDPRDHYDLLQRLGGGT YGEVFKLFAKCYTCIHTYDAMRVFLFM TKSGSQLPRLKEKGK WYERV TGGRSAN VHYIIVYCESVHFLPILLPTLSTKPLSSPEL NAAASYVPFPPIIHIDTAASMCYLFHMY VGVRAGGGIGDEIEDPAGDEYEL YRVVF DITFFFFVIVILLAIHQGLIIDAFGELRDQQ EQVKEDMETKCFICIGSDYFDTPHGF THTLEEHNLANYMFFLMYLINKDETEHT GQSRALCRAFRGMRETGDLVRALKELA V*
7602	15653	A	8240	1	706	
7603	15654	A	8241	323	496	
7604	15655	A	8242	1	483	
7605	15656	A	8243	2	740	
7606	15657	A	8244	249	390	
7607	15658	A	8245	24	426	
7608	15659	A	8246	1	240	
7609	15660	A	8247	935	1150	
7610	15661	A	8248	190	584	
7611	15662	A	8249	201	364	
7612	15663	A	825	65	290	HLVSSLAKGKLAVRQAPFARVPPQHP*V KVKNWDPLLQPPPCRGLALKVTGCRVL GTEGLPHLKDFPIRAATQPL
7613	15664	A	8250	1	1122	

7614	15665	A	8251	1	1197	MHKDWVVFVDSGEHKEALLHELQLCDS TLKPAAHGQTRLVDLSLSEHKAQGTGA HVYEERHQVSVSRDDVGCVPSECLAR ACGAEVGCSNIAYPKLVMELEMP/GFSG AGDFPGPPLSNPLFLEAFDPGLRGLMIA VMLAALMSSLTSIFNSSSTLFTMDIWRRL RPRSGERELLLVGRTGIPSTPPAPQSRLSF LLPETPPLERYLLGLVMDLWLVIVALIG VSVAWIPVLQDSNSGQLFIYMQSVTSSL APPVTAVFVLGVFWRRANEQGAFWGLI AGLVVGATRLVLEFLNPAPPCGEPDTRP AVLGSIHYLHFGVALFALSGAVVVAGSL LTPPPQSVQIENLTWWTLAQDVPLGKA GDGQTPQKHAFWARVCGFNAILLMCVN IFFYAYFA
7615	15666	A	8252	1	624	
7616	15667	A	8253	88	627	
7617	15668	A	8254	3	437	
7618	15669	A	8256	220	415	
7619	15670	A	8257	2	359	
7620	15671	A	8258	1	1270	RTRGRTRGELVLESGEWRWLLERCRPG GAVALLILAAVVS/CAV/SQHAPPWTEDC RKSTYPPSRPTYRGAVPWDII/HVLDLPP YKRWDELMLDMAPV/LSKVIVNSLKNMI NTFVP/SGKIMQVVDEK/LPGLLGNGFPGP FEEEMKGIAAV/SLDIPLGEIISFNIFYELF TICTSIVAEDKKGHILHGRNMGF/GVFLV WNINNDTWVITEQLKPLTVNLDFQRNN KTVFKASSFAGYVGMLTGFKPGLFSLTL NERFSINGGYLGILEWILGKKDAMWIGF LTRTVLENSTSYEEAKNLLTKTKILAPAY FILGGNQSGEGCVITRDRKESLDVYELD AKQGRWYVVQTNIDRWKHPFLDDRR TPAKMCLNRTSQENISFETMYDVLSTKP VLNKLTVYTTLIDVTKGQFETYLRDCPD PCIGW
7621	15672	A	8259	108	988	TARGSKARSGGTRWSLGPSSSGGRRSW QPLVISRAV*H*GKSSRHQPLYSGPHLG PVSHRGGPGPVRQPAAT*RPACASKLVQ PWH*WGP*LGSPALAGHLCRTGCEES HHTCFPGYVKP*RL*ALPGGRPV*VGER ARARPDEPREAAGFCGTEEQPHTDPAHP RLKRDCL/PSVSQAAVSTTASAGFPPAW AASAGFPPTWTPNLSPATLGMQRSSCAL TFRRICRFLSDNKWMQRSITSMIWCN GSGGSTSGRVSFSTLGGTDCSSSSLSKS ETFPSATSFSLR
7622	15673	A	826	230	652	GLSAPVAADPSLEPTPALHASIRPEADLQ P*PRTPLRSWGS/PGVRSRPTGDPGSGVT RLHRAIHQPITISSSTWVTCTGPLCSVLIS PSQQESAPKRTVLEEHLRPPGGAHADA HSGQLRAWPGQQREHGQEASQWEQHP
7623	15674	A	8260	1	319	
7624	15675	A	8261	19	373	AVFFFFFFFFFFFFFFFFFFFFFFFFFFFFF FFFF/SSSSSSSSSSFFLFFFFKLKELRLVI *PLNPEN*ESCPFSPVNLDMPT*TFKDKR WKVNWARSTSRQQLLESARTKSWAERE GGTRWRAW
7625	15676	A	8262	227	420	KNFLPNCSAKELFFFFFFFFFFFFLLLLLL LYFKF/MI*WFKHLAFPLAFILSPTAL* RGVFHH
7626	15677	A	8263	400	582	
7627	15678	A	8264	1205	1681	
7628	15679	A	8265	1	403	
7629	15680	A	8266	3	397	
7630	15681	A	8267	36	446	

7631	15682	A	8268	1	453	RHERHERHEELMTEGEDQFDVGSAAAR KEIIRNKIRAIGKMARVFSVLREESES LKGLTPTGMLPSGVLGGRTLQSATVE AIEAEKAIRGFSPPHRCSFEEAKGLDRIN ERMPPRKDAVQQDGFNSLNTAHATENH GTGNHTAQ
7632	15683	A	8269	644	809	
7633	15684	A	827	108	1102	RMTQCLSECLICKFLSGKVTLGQAQWLT HVIPALWEAEAGRSPEVGRSRPSLAGMV KSRL/VLKIQKKKKKKKISRAWWHMPV VPATWEAEAGELLEPGKA EVAARRDRA TALPAWGSQADGK*G*GLSAPVAADPSL EPTPALHASRRPEADLQP*PRPPPLRSWG SQVCEVPGLGTPPGSPASQSHPTSPYL PLPGSPARVPCARCSSRPASKRARQSAPC GRAPTSPAARGSRRTQRAAQLSARSAA RTRTEASAVGTAPAAGRTGRGGPDQOE FVHGLVPLKQDNGRLQCTAQERAPRAR TLRHRTARPAAFGVLDLGGNHVLPQC
7634	15685	A	8270	37	235	
7635	15686	A	8271	2	230	
7636	15687	A	8272	516	693	
7637	15688	A	8273	2	434	
7638	15689	A	8274	3	417	RQAWHKAGLHAADWAGRARSLLGDSDH TWSAGSIPGKHYQAVGLHLWKVEKRR VNLPRVLSMPVAGTVCHAYDREVHLR CELSPGYYLAVPSTFLKDAPGEVLLRVFS TGRVLSAIRAVAKNTTPGAALPAVERG T
7639	15690	A	8275	308	614	HGSHGIALRPRQSQAPLVHKVCCFQEE QMGAPGKGPCEGSRICRLLAQGLGFHL VCLDRV*HLAPHCSLSLHGCOPHDVPFL VAKRSFLGLEPLSSSP
7640	15691	A	8276	11	161	
7641	15692	A	8277	163	437	
7642	15693	A	8278	1	660	
7643	15694	A	8279	2	1246	SCSAPEELCSLRPTLGARRGNCEAKVTG DRAFQICSVDLGAPPPMLAARL/VCLRTL PSRVFHPAFTKASPVVKNSITKNQWLLT P'SREYAT*T*/RLGIRAWGELGQELKEGS IGNHSMGKNILKFDSGEEWLVA\GGA\ VVGLGSICAYLLALGL/GLN*DLGAI*KR L*FGPQYVKIDRNHSTYMYLAGGVGLT A\LSAIAIQNRLFFMELP*WRRLLGWTI GVDLWQPWL GAGMLVRSIPYDQSPGPK HLAWLLHSGVMGAVVAPLTILGGPLAIR AAWYTAGIVGGLSVTVAIMCAPSEKFLN MGAPLGSAGVSVFVSSIGI*CFPPPTD/T VAGATLYSV\AMYGGISSFLSMFLLYDT PESKSSRAEVSPMYGVQKYDPINSMLAS IY\MDTLNIFMRVATMLATGGNRKK
7644	15695	A	828	241	1104	
7645	15696	A	8280	325	432	
7646	15697	A	8281	1	293	
7647	15698	A	8282	1	366	
7648	15699	A	8283	780	891	
7649	15700	A	8284	44	155	
7650	15701	A	8285	336	414	
7651	15702	A	8286	1	294	KLDTVVEFPPIRGLNMSEFVCNMSARPYV YDLIAVSNHYGAMGVGHYKAAVYLFY QRRDDEFYKTPSLSSSGSSDGGTRPSSSQ QGFGDDEACSMDTN
7652	15703	A	8287	302	486	
7653	15704	A	8288	1	620	
7654	15705	A	8289	1	804	
7655	15706	A	829	95	462	

7656	15707	A	8290	164	399	
7657	15708	A	8291	1	2226	
7658	15709	A	8292	876	1102	
7659	15710	A	8293	2	426	
7660	15711	A	8294	1	128	
7661	15712	A	8295	33	279	
7662	15713	A	8296	198	779	
7663	15714	A	8297	1	441	
7664	15715	A	8298	132	700	
7665	15716	A	8299	303	617	AKPSSGFECRSFAFLSKECGKQLGPSSSS ALSLSGSFFHLGAPS*PRTPRKSDGACR PHPPSSMIGVQLLLGGCLAQHPHRAQL LDADVPTTISIKHVKGQP
7666	15717	A	83	2	448	LHCCPLQLKMOVACRAIGILSRFFAFRFLR SRGYICRNFTGSSALLTRTHINYGVKGD VAGARUNSTNSKVNTLITELQSQFSQVM NEILSSYQIRRAVLISSKPGCFIASSDNL TACMTL*EVSHRSSEAQIIVQKLEMTTLS IVA
7667	15718	A	830	2	648	
7668	15719	A	8300	50	257	
7669	15720	A	8301	110	179	
7670	15721	A	8302	187	571	
7671	15722	A	8303	2	150	
7672	15723	A	8304	227	857	GDSRSRVTRRQDTAWNAWSASHCRRLS ASSRSPLTGPASVGGMAATGANAESAES HNDCPVRLNPNIAKMKEDILYHFNLT SRH/NFPQALFGDV\KFV\VGGSPTSNEK PSSGCRLG\ELGLDCPGRDYPNICAGTD RYAMYKVGVPVSVSHGMGIPSISIMLHE LIKLLYYARCSNVTIIRIGTSGGIGLEPGT VVITEQAVDTCFK
7673	15724	A	8306	1	714	
7674	15725	A	8307	225	382	
7675	15726	A	8308	2	862	FLSVLPHSRALLTPKRAPKKKMAISGVP VLGFFHIAVLMSAQESWAIKEEHVIIQAEF YLNPDQSGEFMDFDGDIEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYTPITNVPPEVTVLNSP VELREPNVLICFIDKFTPPVVNVTLWRNG KPVTTGVSETVFLPR\EDHFFR\KFHYLP FLPSTEDV\YDCR\VEHWGLDEPLLKHV EFDAPSP\PETTENVVCALGLAVGLVGI IIGTIFHHSRELKSNCRQKRKGGLCKAQ WR
7676	15727	A	8309	2	223	
7677	15728	A	831	90	401	
7678	15729	A	8310	1	3252	MELSVTLVSRAPRPLPVFRQLNTAIAVS QMSSGQCRLAPLIQVIQDCSHLYHYTVK LLFKLHSCLPADTLQGHRDRFHEQFHSL RNFFRRASDMLYFKRLIQIPRLPEGPPNF LRASALAEHIKPVVVIPEEAPEDEEPENLI EISTGPPAGEPVVADLFDQTFGPPNGSV KDDRD\QIESLKREVEMLRSELEKIKLEA QRYIAQLKSQVNALEGELEEQRKQKQK ALVDNEQLRHQLAAQLEGERSQ
7679	15730	A	8311	3	3253	
7680	15731	A	8312	1	673	
7681	15732	A	8313	177	393	
7682	15733	A	8314	177	400	
7683	15734	A	8316	1	473	

7684	15735	B	8317	549	602	MWWNSLDGIRNIVLSNPKRNTLSLAM LKSLQSDILHDADSNDLKVIISAEGPVFS SGHDLKELTEEQGRDYHAEVFQTCISKV MMHIRNHPVPVIAMVNLATAAGCQLV ASCDICRGERQDLFCHSWVPRKVALEM LLTGEPISAEALLHGLLNKGGPEAELQE ETMRIARKIASLSRPGVSLGKATFYKQLP QDLGTDYYLTSQAMVDNLALDRQEGI TAFLHKRKPVWSHEPV*
7685	15736	A	8319	272	364	
7686	15737	A	832	276	488	
7687	15738	A	8320	1	322	
7688	15739	A	8321	37	344	
7689	15740	A	8322	3	412	
7690	15741	A	8323	37	438	
7691	15742	A	8324	2	424	
7692	15743	A	8325	543	848	
7693	15744	A	8326	2	242	
7694	15745	A	8327	2	246	
7695	15746	A	8328	294	402	
7696	15747	A	8329	259	350	
7697	15748	A	833	186	537	IWFPLRRRKARQEEKSGLGAPRSPSHNY PPGYLGCLGKTNTS*TYILDQSNIGKRV AILN*ILGGRKLRLEKSLSCQPKVEELYE RVAW/IP*KPGCLLLVSVKVRNVFDWCT WVY
7698	15749	A	8330	2	409	RPPPPVSSVPGPRDQLGVTPLSGRHSL CCWVRIVFPESDGAP*MASFPPRVNEKEI GKLLNLVDHTEVVRLDTFAPDGLILV SASRDKTLRVWDLKDDGNMMKVLRGH QKLVYSCAFSPDSSMLCSVGASKA
7699	15750	A	8331	453	684	SLRFVLSVFCQSLLLGKAESSKYDTRETP KAWKESAPELLGWAHSSGLTCDIKCC RARDLPWSGPKIHTSVMCPSS
7700	15751	A	8332	1	92	
7701	15752	A	8333	67	301	
7702	15753	A	8334	3	276	
7703	15754	A	8335	1	564	
7704	15755	A	8336	1	364	
7705	15756	A	8337	3	103	
7706	15757	A	8338	1	744	
7707	15758	A	8339	3	266	
7708	15759	C	834	79	405	MIGGTPQMFFISGAKGQWSPSLQPPRA HRSPWAPSSKSTSGGTAALGSLGSKDY FPRTGDGVVELRRSDQRRALPGCPTVL RTLLPQQRGDRDLQQLRHHELRL*
7709	15760	A	8340	481	637	
7710	15761	A	8341	1	3335	LNLKFEIEVLCKNLALDINELKPGNLLKD KDRLKNLDEQLSAPKKDVKQPEELPITT TTTSTTPATNTTCTATVPPQPYSYHDIN VYSLAGLAPHITLNPITPLFQAHPQLKQC VRQAIERAVQELVHPVVDRSIKIAMTTC EQIVRKDFALDSESRMRIAHHMMRN LTAGMAMITCREPLMSISTNLKNSFAS ALRTASPQQREMMDQAAQLAQDNCE LACCFIQKTAVEKAGPEMDKRLATEFEL RK
7711	15762	A	8342	1	520	KMDSTEPPYSQKRYEEIVKEVSTYIKKIG YNPDTVAFVPISGWNGDNMLEPSANMP WFKGWKVTRKDGNASGTTLEALDCIL/ PPTRPTDKPLRLPLQDVYKIGGIGTVPG RVETGVLPKGMVVMHHEALSEALPGD NVGFNVKNVDVKDVRNGAGDSTNE PTMEANGFT
7712	15763	A	8343	1	443	

7713	15764	A	8344	41	665	
7714	15765	A	8345	2	394	ADIERLRMRVMAAATHASAI SGWNGD NMLEPSANMPWFKGWK VTRKDNASG TTLLEALNCGIGTVPVGRVETGVLKPG MEVTFAPGNVTTEVKSVEKHHEALSEAL SGDNAGFNVKNVSVKDVRRGNV
7715	15766	A	8346	1	461	MLLEALDCILPPTRPTDKPLHLPLQDVY KIGGIGSVPVGRVETGVLKPGMVVTFAP VNVTTTEVKSVEMHHEALSEALPGDNVG FNVKNVSVKDVRRHGNVAGDSKNDPPM EAAGRFAVRDMRQTVAVGVIAVDKK AAGAGKVTKSAQKAQKAK
7716	15767	A	8347	1	743	
7717	15768	A	8348	208	945	NWFKGWK VTRKDNASGTTTLEALDCI LPTRPTDKPLRLPLQDVYKIGGIGTVPV GRLETGVLKPGMVVTFATVNVTEVKS VENHLVAPLDCPRTFPGPTRPSTYIKKIG YYPDTLAFEPISGWNGDDMLEPSANMP WFKGWK VTRKDNASGTTTLEALDCIL PPTRPTDKPLRLTIQDVYKIGGIGT VTVG RVETGVLKPGMVVTFAPVNGT*VKS AMHHEALSEAHSDNVGFNVKNV
7718	15769	A	8349	1	1434	RGTIDISLWKFETSKYYVTIIDAPGHRDF IKNMITGTSQADCAVLIVAAGVGEFEAGI SKNGQTREHALLAYTLGVKQLIVGVNK MDSTEPPYSQKRYEEIVKEVSTYIKKIGY NPDTVAFVPISGWNGDNMLEPSANMPW FKGWK VTRKDNASGTTTLEALDCILPP TRPTDKPLRLPLQDVYKIGGIGTVPVGR VETGV/LFVPISGWNGDNMLEPRANMP WFKGWK VTRKDNASGTTTLEALDCILP PTRPTDKPLRLPLQDVYKIGGIGTGPVGR LETGVLKPGMVVTFAPGNVTTEVKS VETLHEALSEAFPGDNVGFNVKNVSVKDV RHGNVAGDSKNDPPMEAAGFTAQVILNH PGQISTGYAPVLDCHTAHIACKFAELKE KIDHRSGKKLEDGPKFLKSVDAAIVDMV PGKPMCVEFSFSDYPSLGCFAVRDMRQIV TVGVIAVDKKTAGAGKVTKSAQKAQK AK
7719	15770	A	835	1	321	
7720	15771	A	8350	1	1254	
7721	15772	A	8351	1	1195	
7722	15773	A	8352	1	2471	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTEKFEKEAAEMGKGSFKYA WVLDKLAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLAYT LGVKQLIVGVNKMDSTEPPYSQKRYEE MWLREVSTYIKKIGYNPDTVAFVPISGW N\GDNMLEPSANMPWFKGWK VTRKDG NASATTLEALDCILPPTRPTDKPLRLPL QDVYKIGGIGTDPAGRVKTGVLPKGMV/ VAPFAPVNGTTEVKSVEMHHEALSE/AL LLGDKGAFNVKNVSVKDVRRGNVAGD SKNDPPMEAS\GFTAQVILNHP\SQKNAR HMPLELDCHTAHIACKFAELKEKIDRRS GKKLEDGPKFLKSGDAAIVDMVPGKPM CVESFSDYPPLGRFAVRDMRQTVAVGVI KAVDKKAAGAGKVTKSAQKAQKAK
7723	15774	A	8353	184	819	ETEIKMASRGKTETSKLKQNLEEQDLRL MQQLQDLEECREELDTDEYEETKKTLE QLSEFNDSLKKIMSGNMTLVDEL SGMQL AIQA AISQAFKTPKVIRLCGKK/HHPVQL RPR*AEMDRDLMVGKLERDLYTQKQVE ILTALRKLGEKLTADDEAFLSANAGAILS QFEKVS TD LGRPPSYMNYLLDSHP SKNI DVPSKISFLLKIQDL

7724	15775	A	8354	1	387	
7725	15776	A	8355	3	1022	FLASLQWVQTSSFSSEKFVITDLLKPTSV NLSKSFVQLCSIAAGSLRPTPEIQEVKTP ELETFMLKHGENIIDTLGAEVDRLEKEL KSGSLVPCIPAAPAVTKRGQGTAPAIASV GGSPKPWQLPRGVGPVGAQKSRTVEVWK SLPRFQRMYGKHLDAQNDRSTDLSHSAP GKATDTQCQPLKAAKSGLYPAELKRWS CPWLWEPTFCISVTWSDLEQLRKIRRRSP HEDTESFTVYLRSDVEAKSLEVWGSPEA LAREKKLRKEAEIEYREKGSINSATLI/EF SRYLSDTRY/RTRSCAWCLKICKIIPMTM ANSCSPNTCSLCLLYSSPALPWTLKFA
7726	15777	A	8356	4	516	
7727	15778	A	8357	1	248	
7728	15779	A	8358	3	4135	
7729	15780	A	8359	2	417	
7730	15781	A	836	101	290	
7731	15782	A	8360	43	239	
7732	15783	C	8361	141	356	MSFDCGFGTLPLLLSPICCLGSYSNKNVISP GLXXXXXXXXXXGGALLKDPWGGPIFP GGGKKFFFLFGGGF*
7733	15784	C	8362	22	159	MRGVFPLFPLKXXXXPKGLKIXXXGPI MSPPQKKVPFQKSQGGF*
7734	15785	A	8363	64	240	TLKFWKEGGPPIPPQKKGPFPKIPRGGL *GPPKKKKNFSPFPVVLGPPKGIFKRAP P
7735	15786	A	8364	19	471	
7736	15787	A	8365	3	399	
7737	15788	A	8366	186	840	
7738	15789	A	8367	7	633	PTITNVWSETSQELADGLRRGSQGDSVQ QNGPPRKHIVERYTEFYHVPTHSDASKK RLIEDTEDWRPRTGTTQSRSFRLAQITGT EHLKESEADNTEKANNSQEPSPQLASSV ASTRSMPELDSPTSGRPGVTSLTAAAF KPVGSTGVIKSPSWQRPNGVGPSTGRISN SAAAYSGSVAPANSALGQTQPSDQDTLVQ R*PTITNVWSETSQELADGLRRGSQGDS VQQNGPPRKHIVERYTEFYHVPTHSDAS KKRLIEDTEDWRPRTGTTQSRSFRLAQI TGTEHLKESEADNTEKANNSQEPSPQLA SSVASTRSMPELDSPTSGRPGVTSLTAA AAFKPVGSTGVIKSPSWQRPNGVGPSTG RISNSAAAYSGSVAPANSALGQTQPSDQD TLVQRAEHIPAGN
7739	15790	C	8368	78	386	MTHLEAQNKIKGCTGSLNMTLQRASAA PKPEPGSCSKAHSHQVRDFSGASRG REEDPRVTNTQNGKIPPKRPPKPHCG ALYRVLSCTHFTVMPARRD*
7740	15791	A	8369	20	442	
7741	15792	A	837	21	215	
7742	15793	A	8370	49	354	
7743	15794	A	8371	239	401	
7744	15795	A	8372	141	351	
7745	15796	A	8373	239	474	MRMVTWWRGVFLATSPSPRPSQLEKQ YTALYRKATSPN*FAPNCYPDPQPHLG* LAPVAHVPL*QRRKAESPSSN
7746	15797	A	8374	1	740	MVSDIRKEDGMNVLPKYIPNVGVNFSF AGVYLASETLPGSFAHPEATSRGAVATG TTHLASAVEPNGDSWCKQRSRVSVHYI RINITGWVCTCCDIERNIMLSPLNIRNNI TARLRPKTGTQMPLEQRYTGIDENAHV VERRVF/RVPALHLRRPSQLEKQYIALYR KATSPN*FAPNCYPDPQPHLDRLAPVAH FPL*Q*KAESPSSN*VARGTCTS*LSKP RTVWKDPVARNRPPVGPT

7747	15798	A	8375	803	985	
7748	15799	A	8376	1	319	
7749	15800	A	8377	339	808	GSQSQGGNRGWFSVPASRGVPPPAVMG VLRARGGRGAGSQSPPPGGCLPPMRWG SGATRSLLGLWWETSDGLETPSRWWG SS*TL/GGSPVQVY*LVTDPDSSSH*KANS FCLSGDNLIGKKASFRSKQVNQLSSAGS KPNNVDGLGTGCKVSA
7750	15801	A	8378	588	2278	GWAHGGEACFCVPALHLCRPSQLEKQY PVLY*KATSSN*FAPNYYPDP*PHLG*LP PW
7751	15802	A	8379	779	986	ELQLYWLCKKPPIDIRSHWKSC*AGISTS RLCQLLPKR*GSGVLPADSMRGRKVS SAWHRSLWSSPL
7752	15803	A	838	158	955	KMTSSSEQEEDKNNQSATPRQTGPATT MNSKGQYPTQPTYVPQPPGNPVYPQTLH LPQAPPYTDAPPAYSELYRPSFVHPGAA TVPTMSAAFPGLASLYLPMASVAVGPL GSTIPMAYYPVGPIYPGSTVLGCKGG YDAGARFGAGATAGNIPPPPGCPPNAA QLAVMQGANVLVTQARKGNFFMGSDG GYTHLVRNQGHLCAREKTSHTLQHFSQ CNCFSHINLKLQFRHMLLGCLSGAQTR HFSNLIRNHVMVAVPP
7753	15804	A	8380	179	795	PAFFLIPGCAPPVG**IPSNVPAVGRSDFF SWTPYTHSPPDAGVEHPFWRTRLPWG VPAKGHQRTGATRSLGFWWDTSGGLEP TPRRWWGSS*LEEARKCTE**HLTPD LPTRQTASGSQGRI*C*RKHLS/WSKQV KQLSSAGSNPSNVYGLG/DCWM*SHCSL LNQAQILSRPVVLGLRLGNRQEGSVWR LTRNYHSGKS
7754	15805	A	8381	1	1029	
7755	15806	A	8382	989	2798	
7756	15807	A	8383	2	396	
7757	15808	A	8384	3	1773	PGGRQQAEQIMVQYELWAALPGASGV ALACCFVAAAVALRWSGRRTARGAVV RARQKQKQAGLENMDRAAQRFLQNPDL DSEALLALPLQLVQKLHSRELAPEAVL FTYVGKAWEVNKGTCNVTSLADCTQ LSQAPRQGLLYGVPVSLKECFTYKGQDS TLGLSLNEGVPACDSVVVHVLKLQGA VPFVHTNVPQSMFSYDCSNPLFGQTVNP WKSSKSPGGSSGEGALIGSGSPLGLG TDIGGSIRFPSSFCGICGLKPTGNRLSKSG LKGCYVQGEAVRLSVGPMARDVESLAL CLRALLCEDMFRLDPTVPPLPFREEVYTS SQPLRVGYETDNYTMPSPAMRAVLE TKQSLEAAGHTLVPFLPSNIPHALETST GGLFSDGGHTFLQNFKGDFVDPCLGDLV SILKLPQWLKGLLAFLVKPLLPRLSAFLS NMKRSAGKLWELQHEIEVYRKTVIAQ WRALDLDVVLTPMLAPALDLNAPGRAT GAVSYTMLYNCLDFPAGVVPVTTVTAE DEAQMEHYRGYFGDIWDKMLQKGMKK SVGLPVAVQCVALPWQEEVCLRFMREV ERLMTPEKQSS
7758	15809	A	8385	660	772	
7759	15810	A	8386	27	372	
7760	15811	A	8387	685	769	
7761	15812	A	8388	305	425	
7762	15813	A	8389	308	410	
7763	15814	A	839	217	491	
7764	15815	A	8390	3	501	
7765	15816	A	8391	4	318	
7766	15817	C	8392	340	474	

7767	15818	B	8393	317	702	LAEWRPREPMQRKLKVTSLPEPGTVVITE QAVDTCFKAEFQIVLGKRVIRKTDLNK KLVQELLLCSAELSEFTTVVGNTMCTLD FYEGQGRLDGALCSYTEKDKQAYLEAA YAAGVRNIEMESSVFAAI*
7768	15819	A	8394	209	581	
7769	15820	A	8395	227	1302	GDSRSRVTRRQDTAWNAWSASHCRRLS ASSRSPLTGPASVGGMAATGANAES HNDCPVRLNPNIAKMKEDILYHFNLT SRHNFPTLFWFKGLFGGNPSRMKPF RCLGPEIGLDCPVRDYPNICAGTDYAM YKVGVPVLSVSHGMGIPISIMLHELKLL YYARCSNVTHIRIGTSGGIGLEPGTVVITE QAVDTCFKAEFQIVLGKRVIRKTDLNK NKKLVQELLLVSAELSEFTTVVGNTM CTLDYFYEAGQGRLDGALCSYTEKDKQA YLEAAYAAARVPQLFEMESSVFAIAMCS ACGLQAAVVCVTLNRLEGDQISSPRN VLSEYQQRPQRLVSYFIKKLSKA
7770	15821	A	8396	3	337	
7771	15822	A	8397	2	375	NHEKDDNSLKIIISNASCTTNWLTPLAKGI HDNFGIVEGLMTTVHAITATQKTGDGPS GNWGVMAAGLSKTSPLLG/LGKAGG KVIPELNGKLTGMAFRVPTGNVAGVDLT CRLKKPGKYDDIK
7772	15823	A	8398	3	1141	IRHEVRQSAASSFASPAEPHSDTMGKV KVGNGFGRIGRLVTRAAFNSGKVDIVA INDPFIDLNYMVYMFQYDSTHGKFHGT VKAENGKLVINGNPITIFQEPKIPSKIKV GGDAGRLKYVVEFHLAVFTTMEKGLG ASFRCRGGAKRVNQSLPPSG*CPPCFGH V*TIEKYDNSLKIIISNASCTTNCLTPLA KVIHDNFGIVVEGLMTTVHAITATQKT GWALPGNCGVMGPRGSSRTSSLPLAA AKAVGKVNPLSLNGEAHLGMGFRVPN ANVSVDLTCLREKPAKYDDIKKVVK QASEGPLKGILGYTEHQVVSDFNSDTH SSTFDAGAGIALNDHFVSRISWYDNEF GYISNRVVDLMAHMASKE
7773	15824	A	8399	1	374	
7774	15825	A	84	247	287	KRGFVLPPGLECGPIWVNGR/LRLGLP PFSGLSFPGSWDYGGPPGRVKIWHFLE KRGFRGVARVGSILLTGEPVVLGF*KPPF F
7775	15826	A	840	1789	2411	KTYWRKKVEKVVSNNR/LVTPC/CIVTS TYGWTANMGENH*KLQALKETTSTMG/ YYMASQRKHRGIKPLTSLIEYLKAKRPE GLIRTDKSVKDLVILLYETALLSSGFQS WKIPRHH*AQVSYRMIKLAGLIDEDGPY LLDDTSAAVNLKELPPLEGDDDTFTHG KEVGLILLGLRGWTLPVSVLYNSSDNIFF QGCFLFLVNI
7776	15827	A	8400	127	420	
7777	15828	A	8401	3	509	KNRIKKISNLENLKSIDVLDLHGNQITKI ENINHLCELRLVNLARNFLSHVDNLNGL DSLTELNLRHNQITFVRDNDLPCLOHL FLSFNNISSFDSVCLADSSSLSDITFDGN PIAQESWYKHTVLQNMMLRH*DMEGE FTGRRKGVWHLF*PKKGGKRKEPGKS
7778	15829	A	8402	2	384	
7779	15830	A	8403	1	430	ERVGNVCSLEISNIQKGEGEYMCHAVN IIGEAJSFANVDIMPQEERVVALLPPEFC RSKYGFGKGGRRQRTKN*FRIFEMPPRFI MPICDFKIPENSDAVFKCSVIGIPTPEVK WYKEYMCIEPDNIKYVISEEKGSHTLIIR
7780	15831	A	8404	1	12064	
7781	15832	A	8405	2	383	
7782	15833	A	8406	1	1677	

7783	15834	A	8407	2	2580	GQKKLVILNKSDLVPKENLESWLNLYLK KELPTVVFRASKPKDKGKITKRVKAKK NAAPFRSEVCFGKEGLWKLGGFQETCS KAIRVGIVGFPNVGKSSIINSLKQEQMC NVGVHGGGLQGSMQVVPLDKQITIIDSP SFIVSPLNSSSALALRSPASNEVVKPMEA ASAILFQADVRQVVLKYTVPLQGLW EFFTMLAQRKEVWHQKGGNPKCLEGA AKLLWSEWTGASLAYYCHPPTSWTPPP YFNESIVVDMKSGFNLEELEKNNAQSIR GENCVSLLSSSADRPVELLPVYMGLLSFP AIKGPHLANSILFQSSGLTNGHIEEKDIHE ELPKRKERKQEEREDDKDSHETVDEEV DKKLDMSGKRRRATSPSSSVSGDFDDG IHHSVSTPGPSRKRRRLSNLPTVDPIAVCH ELYNTIRDYKDEQGRLLCELFIRAPKRRT DSEIYEDAVELQQFFIKIRDELCKNGEILL SPALSYTTKHLHNDVEKERKEKLPKEIEE DKLKREEEKRVEGHIQRLHYCTNPDSKPK YPAQRTPQIHLQGEVLFYESKFRTLEEVT VVLDTIISINQPDYYEVVSQPIDLMKIQ QKLKMEYYDDVNLLTADFQLLFNNAKS YYKPDSPYKAACKLWDLYLRTNEFV QKGEADDEDDDEDGQDNQGTVTEGLLK ISITQKIRPVVILFHYGESWNLLRADQRLL FAKSWPRASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTFSPVPTP HTFRHSYAMHMLYAGIPLKVLQSLMGH KSISSTEVYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
7784	15835	A	8408	2	259	
7785	15836	A	8409	1	257	
7786	15837	A	841	225	336	
7787	15838	A	8410	3	365	
7788	15839	A	8411	2	243	
7789	15840	A	8412	2	339	
7790	15841	A	8413	2	182	
7791	15842	A	8414	2	381	
7792	15843	A	8415	59	572	SGRPFFFFFSATGACLFPPGPGRLLGAEY RQRHWGTWVWHGLELGRLSNREGCA RACRDWSHPPRTERGPSGHGGITSARLG TGTGERLRSGCVQGLVGMGRPVDRA* SVLEPGGTPGRANWALDVEKLGK*E NKSLWVSRP/RQRCDRCRQDRPWERPRLQ VTPIARQ
7793	15844	A	8416	3	1735	
7794	15845	A	8417	2	441	
7795	15846	A	8418	412	569	
7796	15847	A	8419	2	2812	RGLAVFISDIRNCKSKEAEIKRINKELANI RSKFKGDKALDGYSKKKYVCKLLFIFLL GHDIDFGHMEAVNLLSSNRYTEKQIGYL FISVLVNSNSELIRLINNAIKNDLASRNP FMGLALHCIAVSGSREMAEAFAGEIPKV LVAGDTMDSVKQSAALCLRLRYRTSPD LVPMGDWTSRVVHLLNDQHLGVVTA TSLITTLAQKNPEEFKTSVSLAVSRLSRIV TSASTDLQDYTYFVPAPWLSVKLLRLL
7797	15848	A	842	610	834	
7798	15849	A	8420	2	397	
7799	15850	A	8421	3	438	
7800	15851	A	8422	3	354	
7801	15852	A	8423	3	339	
7802	15853	A	8424	1	338	
7803	15854	A	8425	1	70	
7804	15855	A	8426	62	374	

7805	15856	A	8427	2	374	
7806	15857	A	8429	1	342	
7807	15858	A	843	36	351	
7808	15859	B	8430	212	587	MGKGSFKYAWVLDKLAADRERGITIDIS LGKFETSKYYVTIIDAPGHRDFIKNMITG TSQADCAVLIVAAGVGEFEAGISKNGQT REHALLAYTLGVKQLIGGVTKMDSTEPP FRRKRYEEIVKGX*
7809	15860	A	8431	1	1386	
7810	15861	A	8432	66	1574	KLTPKPKWESVKTHINLAIVIGHVDSG KS\TTTGHLLIYKCGGIDTKNHLKNLTKEA AEMGKGSFKYAWVLDKLAERERGITI DISLWKFETSKYYVTIIDAPGHRDFIKN\ MITGTSQA*PGLGGPLFGG/CSPLIVAAG\ VGEFEAGISKNGQ\TREHALLAYTLGVK QLAIVGC*QKWDSTNEPTPTAQKKILKEIV K/EKVSTFH*RKFGYNP/DTVAFVPNPLV WN\GDNMLGAQVPNMPWFQGDGKVTR KD\GNASGTTLLWRALDCILP\TRPTDQ APLR\LPFQDVLPKIGGYLGTWFLVWPE WETGVL/RNPGMGVTF\APVNVT\EVKS VEMHHEALSEALPGDNVGFNVKNVSV KDVRRGNVAGDSKNDPPMEAAGFTAQ VIILNHPGQISAGYAPVLDCHTAHACKF AELKEKIDRRSGKKLEDGPKFLKSGDAA IVDMVPGKPMCVESFSDYPPLGRFAVRD MRQTVAVGVIAVDKKAAGAGKVTKS AQKAQKAK
7811	15862	A	8433	2	265	
7812	15863	A	8434	3	318	
7813	15864	A	8435	2	896	VGPRGMWRAGSMSAELGVGCALRAVN ERVQQAVARRP/RGDLPAIQPRLVAVSK TKPADMVIEAYGHGQRTFGENYVQELA LEKASNPKILSLCPEIKWHF\IGHLQKQN VNKLMAVPNLFMLAETVDSVKLADKV NSSW\QRK\GSPERLKVMGPGFNTSREEI YLFVS\SLLEGKHGLPPSETIAIVEHINAK CAPNLAEFVGL\MTLG\SFHDL\SQGNPD FQLLLSLPEETVVK*RIPADQVELSMGL SADMQHAVEVRSTDVWIRSTVFGEPDY SKKPTPDKCAADV\KAPLEVAQEH
7814	15865	A	8436	202	349	
7815	15866	A	8437	1	129	
7816	15867	A	8438	3	387	
7817	15868	A	8439	505	693	
7818	15869	A	844	3	259	
7819	15870	A	8440	46	3454	AGESIMDTDL\YDEFGNYIGPELDSDEDD DELGRETKDLDEMDDDDDDDDVGDHD DDHPGMEVVLHEDKKYYPTAEEVYGPE VETIVQEEDTQPLTEPIIKPVTKKFTLME QTLPTVYEMDFLADLMDNSELIRNVTL CGHLHHGKTCFVDCLEQTHPEIRKRYD QDLCYTDILFTEQERG\GVGKSTPVTVVLP DTKGKSYLFNIMDTPGHVNFSDDEV\TAGL RISDGVVLFIDAAEGV\MLNTERLIKHAV QER
7820	15871	A	8441	2	639	
7821	15872	A	8442	60	345	
7822	15873	B	8443	26	384	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQVIILN HPGQISAGYALYWIAIVDMVPGKPMCV ESFSDYPPLGRFAVRDMRQTVAVGVIA VDKKAAGLAS*

7823	15874	A	8444	33	99	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAGISKNGQTR EHALLAYTLGVKQLIVGVNKMDSTEPPY SQKRYEEIVKEVSTYIKKIGYNPDIVAFV PISGWNGDNMLELCSNMPWFGMKIV TRKDGNASGTTLEALDCILPPTRPTDK PLRLPLQDVYKIGGIGTVPVGRVETGVL KPGMVVTFAPVNVTEVKSVMHHEA LSLEALPGDNVGFNVKKCVVSRMFRRGN VAGDSKNDPPMEAAGFTAQVILNHP/S QKNARHMPLELDCHTAHIACKFA*A*RK RFDRRSGKKLAEDGP*NSLKS*CWPLV DMVPWASPMCV*EASQDYPPLGRFWPF RYMRQTALRLGVNQQLDKKAAGVAG KVHQSLAQKA*KPKWERKRLISTLSSLD T
7824	15875	A	8445	2	442	
7825	15876	A	8446	76	413	
7826	15877	A	8447	524	954	
7827	15878	A	8448	3	206	
7828	15879	A	8449	3	206	
7829	15880	A	845	3	661	
7830	15881	A	8450	3	327	
7831	15882	A	8451	56	324	
7832	15883	A	8452	33	159	
7833	15884	A	8453	2	494	
7834	15885	A	8454	130	716	LFARLPEAIPWRQKKESSAQIRLEPPSRA QGETGFSWLGPDTHSRFVWWLGL/CG EGWAGIPLCFFSPRKYNTPIRDFLGPPL TGQGNKKTNRSSQTLPIEKPLSLL*KLL PSLRERE*FIGLGVRAVSPGSLISGLGA QACPQ/GLPCLCLYPCLRGPGQDFPNQPR POHPPSPQKPPSSFPHGSYVESLF
7835	15886	A	8455	1	578	GGRSVLPVDPRVRSHPMTHTGNTGLSAG LDASAQTTSHELTIPNDLIGCIQRQGAKI NEIRQMSGAIKIANPVEGSTDRQVTTIG SAASISLAQYLINVSLENAPSSQAASVTI PDHLSINLSQPSTPSSSFSTTTPSLATAG TSDAPSSLPNSSDRPLCLQSAWHETHPF PGSPPPRLLLPATPPL
7836	15887	A	8456	2	875	IITLAGPTNAIFKAFAMIIDKLEEDISSM TNSTAASRPPVTLRLVVPASQ/CGSLIGK GGCKIKEYTREYRGFRSKVAGDMLPNLT ERAVTIAGIPQSHIECVKQICVVMLETLSQ SPPKGVITIPYRKPSSSPVILQGGQPYTI QGQYAIQPQDLTKLHQLAMQQSHFPM HGNTGIQWHLNPASPRGSKAYWAGLAD ASAQTTSSWNSPFPNGFDWAGHIGAFKG AKINEIRQM/SGAIKIANPVEGSTDRQ VTITGSAASISPGVNIINVRLSSETGGM GSS
7837	15888	A	8457	3	376	HSSGLGGGGVMLVHDIRRNESHLDIFRE SAPGALREETLQRSWETKPGLLVGVPG MVKGLHEAHQLYGRLPWSQVLAFAAAA VAQDGFNVTHDLARALAEQLPPNMSE FRETFLPFGVRPPLPGS
7838	15889	A	8458	1	1965	
7839	15890	A	8459	4	267	
7840	15891	A	846	33	382	
7841	15892	A	8460	10	464	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIH DPGRGAPLAKVVRDPYRFFKRTELFIA AEGIHTGQFVYCGKKAQLNIGNVLPVGT MPEGTIVCPVISKKVISSANRAVGVVA CCGRIKZIK

						GGGRIDKPILKA
7842	15893	A	8461	5	807	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIIH DPGRGAPLAKVVFRDPYRFKKRTELFIA AEGIHTGQFVYCGKKAQLNIGNVLPVGT MPEGTIVCCLGGEAWKTRGKLARASGN YATVISHNPETKKTRVKLPSGSKKVISS ANRAVVGWVAGGWPELTNP SLKAGRA YHKYKAK/RQRNCWP/RIRG/VAMNPVE HTFGGGQ/HPQHIASPTTIRRDAP/AGRKV GLIAARRTGRLRGTKTVQEKEN
7843	15894	A	8462	11	349	
7844	15895	A	8463	305	676	RSKSDSAADLPSRRARLSGTGEKASENK GDPVHL*ADGGFVPLEDSL CM*FPAWAS SPSAALSIGLTVQVAGLQGLPWAPWVVP LGSTGRRSSGELEESEAGYLSTSSTDGLL GSFKEGCSSC
7845	15896	A	8464	352	784	
7846	15897	A	8465	3	381	
7847	15898	A	8466	1	233	
7848	15899	A	8467	3	356	
7849	15900	A	8468	2	374	
7850	15901	A	8469	2	482	KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCKKHPEAKRMPCAEDYLSVV LNQLCVLHEKTPVSDRVTKCCTESLVNR RPCFSALEVDETYVPKEFNAETFTFHVK HKPKATKEQLKAVMDDFAAFVEKCCKA DDKETCF AE EGKKLVAASQAAL
7851	15902	A	847	21	371	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFFDSFGNLS SASAIMGNPKVKA/HPENFKLLGNV/LVT VLAHFGKEFTPEVQASWQKMVTGVAS ALSSRYH
7852	15903	A	8470	2	435	
7853	15904	B	8471	73	384	MFLYEYARRHPDYSVVLLRLAKTYETT LEKCCAAADPHECYAKVFDEFKLLVEEP QNLKQAWRVQIPECAISSLHQESTPSVN SNSCRGLKKPRKSGQOML*
7854	15905	C	8472	11	475	
7855	15906	A	8473	1	608	
7856	15907	A	8474	1	593	AKYICENQDSISSKLKECCEKPLEKSHC IAEVENDEMPADLPSLAADFVESKDVCK NYAEAKDVFLGMFLYEYARRHPDYSVV LLLRLAKTYETTLEKCCAAADPHECYAK VFDEFKPLVEEPQNLKQNCLEFEQLGEY KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCKKHPEAKRMPCAEDYLSRG PRTSRMFAKTMLRQRMSSWAC/CLYEY ARRHPDYSVVLLRLAKTYETTLEKCCA AADPHECYAKVFDEFKPLVEEPQNLKQ NCLEFEQLGEYKFQNALLVRYTKKVPQ VSTPTLVEVSRNLGKVGSKCKKHPEAKR MPCAEDYLSRGP

7857	15908	A	8475	1	1428	MKWVTFISLLFLFSSAYS SRGVFRRDAHK SEVAHRFKDLGEENFKALVLI AFAQYLQ QCPFEDHVKL VNEVTEFAKTCVADES AE NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPERNECFLOHKDDNP NLPRL VRPEVDVMCTAFHDNEETFLKKYLYEIA RRHPYFYAPELLFFAKRYKA AFTECCQA ADKAACLLPKLDEL RDEGKASSAKQRL KCASLQKFGERAFKAWAVARLSQRFPK AEFAEVSKLVTDLT KVHTECCHGDLLEC ADDRADLAKYICENQDSISSKLKECCEK PLLEKSHCIAE/HRNLGKVGSKCKHPEA KRMPCAEDYLSVVLNQLCVLHEKTPVS DRVTKCCTESLVNRRPCFSALEVDETYV PKEFNAETFTFHADICTLSEKERQIKKQT ALVELVKHKPKATKEQLKAVMDDFAAF VEKCKADDKETCF AEKGKLV AASQA ALGL
7858	15909	A	8476	1	748	
7859	15910	A	8477	1	1515	
7860	15911	A	8478	1	2931	MKWVTFISLLFLFSSAYS SRGVFRRTP LGP ASSLPQSFLKCLEQVRKI QGDGAALQE KLCATYKLCHPEELVLLGHSLGIPWAPL SSCPSQALQLAGCLSQLHSGLFLYQGLL QALEGISPELGPTLDTLQLDVADFATTIW QQMEELGMAPALQPTQGAMP AFASAFQ RRAGGVLVASHLQSFLEVSYRVLRLHLA QPGGGGDAHKSEVAHRFKDLGEENFKA LVLI AFAQYLQCPFEDHVKL VNEVTEF AKTC
7861	15912	B	8479	1	6124	MKWVTFISLLFLFSSAYS SRGVFRRDAHK SEVAHRFKDLGEENFKALVLI AFAQYLQ QCPFEDHVKL VNEVTEFAKTCVADES AE NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPGRNECFLOHKDDNP NLPRL LVRPEVDVMCTAFHDNEETFLKKYLYEIA ARRHPYFYAPELLFFAKRYKA AFTECCQA AADKAACLLPKLDEL RDEGKASSAKQR LKASLQKFGERAFKAWAVARLSQRFP KAFAEV
7862	15913	A	848	24	474	
7863	15914	A	8480	241	348	
7864	15915	A	8481	2	191	
7865	15916	A	8482	3	370	
7866	15917	A	8483	1	351	
7867	15918	A	8484	44	454	
7868	15919	A	8485	200	408	
7869	15920	A	8486	1	110	
7870	15921	A	8487	48	462	
7871	15922	A	8488	1	721	MHWGVGFASSRPCVVDLSWNQ SISFFG WWAGSEEPFSFYGDIAFPLQDYGGIMA GLGSDPWKKTLTYLTGGALLAAAAYLL HELLVIRKQQEIDSKDAIHLHQFARPNNG VPSLSPFCLKMETYL RMADLPYQNYFGG KLSAQGKMPWIEYNHEKVSGTEFIIDFLE EKLGVNLNKNLGPHERAISRAVTKMVEE HFYALSWRWYHPVPTCPLQKFLQFVRQ LMLFMRTPSPSALPGH
7872	15923	A	8489	3	785	
7873	15924	A	849	24	415	
7874	15925	A	8490	5	302	
7875	15926	A	8491	1	2086	
7876	15927	A	8492	3	2011	
7877	15928	A	8493	305	505	

7878	15929	A	8494	3	1588	EEEDYDVYKSEFPTEADLEDFTEAAVDE DDEDEEEGEEVVEDRDYYYDTFKGDDY NEENPTEPGSDGTMSDKEITHDVKAVCS QEAMTGPCRAVMPRWYFDLSKGKCVRF IYGGCGGNRRNFESEDYCMAVCKAMIP PTPLPTNDVDVYFETSADDNEHARFQKA KEQLEIRHRNRMDRVKKEWEEAELQAK NLPKAERQTLIQHFQAMVKALEKEAASE KQQLVETHLARVEAMLNDRRRMALEN YLAALQSDPPRPHRILQALRRYVRAENK DRLHTIRHYQHVLAVDPEKAAQMKASQ VMTHLHVIEERRNQSLSLLYKVPYVAQ EQEEIDELLQEQRADMDQFTASISETPV DVRVSSDESEIEPPFHPFHPFALPENEG SGVGEQDGGIGAEKVINSKNKVDEK HGPLNETLDVKEMIFNAERVGGLEEEERE SVGPLREDFSLSSSALIGLLVIAVAIATV IVISLVMLRKRQYGTISHGIVE/VVDPML TPEERHLNKMQRNHGYENPTYKYLEQMQ I
7879	15930	B	8495	73	1845	MAATGTAAAAATGRLLLLLVGLTAPA LALAGYIEALAANAGTGFAVAEPQIAMF CGKLNMHVNIQTGKWEPTGTGKSCFET KEEVLQYCEMYPELQITNVMEANQRV SIDNWCRRDKKQCKSRFVTPFKCLVGEF VSDVLLVPEKCCFFHKERMEVCENHQH WHTVVKEACLQGMTLYSYGMLLPCG VDQFHGTEYVCCPQIKIIGSVSKEEEED EEEEEEDEEEDYDVYKSEFPTEADLEDF TEAAVDEDEDEEEGEEVVEDRDYYYD TFKGDDYNEENPTEPGSDGTMSDKEITH DVKAVCSQEAMTGPCRAVMPRWYFDL SKGKCVRFIYGGCGGNRRNFESEDYCM AVCKAMIPPTPLPTNDVDVYFETSADDN EHARFQKAKEQLEIRHRNRMDRVKKEW EEAELQAKNLPKAERQTLIQHFQAMVK ALEKEAASEKQQLVETHLARVEAMLND RRRMALENYLAALQSDPPRPHRILQALR RYVRAENKDRLHTIRHYQHVLAVDPEK AAQMKSQVMTHLHVIEERRNQILSLLYK VPYVAQEIQEEIDELLQEQRADMDQFTA SISEHPCGRPGEL*
7880	15931	B	8496	55	274	MADANKAEVPGATGGDSPHLQPAEPPG EPRREHPAAEKQPPHSSSSNGVKME NDESAKEEKSDLKEKSTGX*
7881	15932	A	8497	3	754	FLFFEPHPAEARKQQPQHSSSSNGVKME NDESAKEEKSDLKEKSTGSKKANRFHPY SKDKNSGTGEKKGNRRNVFISNIPYDM KWQAIKDLMREKVGEVTVYVELFKDAEG KSRGCGVVEFKDEEFVKKALETMNKYD LSGRRVNIKEDPDGENARRALQRTGTSF QGSHASDVGSLVNLPPSILNNPNIPPEVI SNLQAGRLGSTIFVANLDFKVGWKKLKE VFSIAGTVKAGRYKEDKDGQSRGMGT
7882	15933	A	8498	2	346	
7883	15934	A	8499	1	414	AWHEETHKVDLGLPEKKKNKKVVKEPE TRYSVLNNDDYFADVSPLRATSPKSV HGQAPEMPLVKKKKKKKKVSAALGKE VKRSQSKLRLRNTSP*VMTLRPPQRKR*S PKRR*SSQSSRSQ*KGKRKRRGKRG
7884	15935	A	85	2	526	RGGCDRDGPFSASSPLAMASLTVKAYLL GKEDAVAREIRRFSLCCSTEPEAEVAA GPGPCRLLIRVAALFPAVRPGGFQAHY RDEDGDLVAFSSDEELTMAMSYVKDDIF RIYIKETNECLA/DHRPPDAHERA/PRNM VHLNEICDG*NGPVAGTLYMCSFCPYYY LCTPFNV

7885	15936	A	850	24	432	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDFSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHLLDLKGT AQLSELHCDKLHVDPENFKLLGNVHFG KEFTPEVQASWQKMTGVASALSSRYH
7886	15937	A	8500	1	1977	MEVDFKIRKVGQWTTITLQEHVPVSVLLFIE ETHPENKPTSTAVEESHISRDTVMVNFQ CQLDWSKGYLEAYLTKINSICSHRFLD GSVTCHDETGSRRDARDTVGTGVRVND ESVEQLGLRRTMWLGICRGAAMAAVST VTAFAGRPRPGRSRNPRGWAGDSKWT GSRRSWLSRGGGEISPTGMITKTHFVYL GLPEKKKKKKRVVKEPETRYSVLNDDY FADVSPLRATSPS*DV AHGQAPEMPLVK KKKKKKKGVSTLCEEHVEPETTLPARRT EKSPSLRKQVFGHLEFLARGKRKNKKSPL AMSHASGVKTSQDPRQGEETR VGKK\ SKKHKKEKKGGPGPHSLPVQDPWFCEA REARDVGDTCVSGKKDEEQAALGQKRK RKSPREHNGKVKKKKKHQEGDALPGH SKPSRSMESPRKSGSKKPKVKEAPEYIP ISDDPKASAKKKMKSKKKVEQPVIEEPA LKRKKKKKRKESGVAGDPWKEVVPSE MDFAVGELRETDTDLEVLEKKGNMDE AHIDQVRRKALQEEIDRESGKTEASETR KWTGTQFGQWDTAGFENEDQKLKFLRL MGGFKNLSPSFSRPASTIARPNMALGKK AADSLQQNLQRDYDRAMSWKYSRGAG LGFSTAPNKIFYIDRNASKSVKLED
7887	15938	A	8501	2	376	TAGFLLPQGLPCKYHLMYGSILMPNVW RRTTTREPPLGDAEPNTRSLMWEVKRS SSGPWVFKSNIACHIPIFRITSTSSAYD/W PFTHSF**FSGIIPPCPHGCHQPFSDQDMVT FPLCQLPAHLH
7888	15939	A	8502	2	956	
7889	15940	A	851	323	737	
7890	15941	A	852	24	589	
7891	15942	A	853	100	684	
7892	15943	A	854	135	851	APSPDAMGHFTEEDKATITSLWCKVNV EDAGGETLGRLLVVYPWTQRFDFSFGNL SSASAIMGNPKVKAYGKKVLTSLGDAI KHLDDLKG\TFAQA*SELHCDKLHVD PENFKLLGK CAGDPFLAIPFSAKEFTPGG CRLPGQKDG*LGVGQCPGPPDTTEAQLP MNAELFKDMALFLQAITNKSISAKRSN FKLLGNVLT\VLAIHFGKEFTPEVQASW QKMTGVASALSSRYH
7893	15944	A	855	40	505	QPQTVSILHLTPEEKSAVTALWGKVNLD EVDVEALGRLVVYPWTQRLLESFGNL STPDVAMGNPKVKAHGKKVLGAFSDG LAHLNLDLKGTFATLSELHCDKLHVDPEN FRLGQRAWV/LAGPITFGKEFTPPVAG LPIRKLVA\VANALAHK
7894	15945	A	856	41	536	APSPRRPWGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFDFS GNLSSASAIMGNPKVKAHGKKVLTSL GDA\TKHLDDLKG\TFAQA*SELHCDKL HVDPENFKLLGNVLT\VLAIIPFSAKEF TPEGCRASWAERWVTWSWPVPCSSRYH
7895	15946	A	857	241	435	
7896	15947	A	858	243	449	
7897	15948	C	859	275	397	MLCWLKLGVIHHYSGNNIELGTAMRENT YRVLHTGLFIDPG*
7898	15949	A	86	285	326	NLPKILGHTQKRLQSTRSWKRMMLSLIN LQIIYNPVIPFVGTPDHLDFVS*IVIRGP VSSDANYIQYDL*NPNKSLSV
7899	15950	A	860	2	424	

7900	15951	A	861	73	608	SVMTPVAPTLKAASKSDSSGPHRLRENP PWCLSPADKTNVKAAWGKVGHAHAGEY GAEL\ERMFLSFPTTKTYFPHFDLSHG\S AQV*GATGK\KVADAL\TNAVAHVGR LPNALSGPEATLHAHK\LRGGPGSTFKLL \SHLPCLGEPWAAHLPGRVSPLGGCKAS LGTNFLGFLKQPC
7901	15952	A	862	7	330	
7902	15953	A	863	2	379	
7903	15954	A	864	3	722	HERGSVSCFNSGWTDIRGHFLQPPTAL RFPLRLQPPGPSSRPSASGTCQHQLWL APSCQPTMSSQIRQNYSTDVEAAVNSLV NLYLQASYTYLSLGFYFDRDDVALEGVS HFFRELAEE\KREGYERLL\RMQTQRGGR ALFQDIKKPAEDEWGKTPDAMKAAMAL EKKLNQALLDLHALGSARTDPHLCDFLE THFLDEEVKLIKMMGDHLTNLHRLGGPE AGLGEYLFERLTLKHD
7904	15955	A	865	40	264	
7905	15956	A	866	3	1231	
7906	15957	A	867	3	496	
7907	15958	A	868	1121	1442	
7908	15959	A	869	2380	2714	EETEGQARWLTPVIPTLWEAEAGGSPEV GSSRPA*PPLSAFLYPAFFLRSARFL
7909	15960	A	87	133	392	LITIYYIPENCQPGQHSETSSL/LKKIKKLA GCGGTHL*SQLLGRLRREDYLSPPGGQICS EP*SYHCTPAWVTGQDPASKKKKKKKKK R
7910	15961	A	870	3260	3533	
7911	15962	A	871	6330	6802	RSKGRAKIKSRRAGQVQWLMVPVIALW EAKAGGSPEARSL*PAWPIW*NPALHSSL /V**SKALSQKQKQKKNHGDGQHDETV SLLKIQKSAGAH*SQLLREAEAGELLE RRQTLQ*AEILPLHSGLGDKSKTPSQKKK KKRSQGVGVREPQGP
7912	15963	A	872	1	500	
7913	15964	A	873	63	375	
7914	15965	A	874	27	374	
7915	15966	A	875	1	801	
7916	15967	A	876	1286	1388	
7917	15968	A	877	1	1056	
7918	15969	A	878	651	1467	
7919	15970	A	879	3	414	
7920	15971	A	88	2	359	EVLRMAGTGLVAVEVVVDALPDFEEGY EGPGGREAAAALVEDETRRYRPTMNYL SYLTSPDYSAFETDILN\NDSERLAARQP\ I*LLTMKLYYLSSPCGHYFVLLHVYNC LSLYFPSP
7921	15972	A	880	164	412	
7922	15973	A	881	29	489	
7923	15974	A	882	44	847	IKENSFIWIRASTITYLKGETIGTEPEGK\ EGECASTGL\VNPRDFPSKVSFPKIPV*T SLHITPLAIVCPFQNIWSLHGKGQRGK\ QNINKRETKNKN\TLFREPKQNPQIPFF* TTQGHAEVKSLSVPL*ITGRKA\STQSL* QEFSTLEASEHAEDG/ALLRVPLPSWRA PSGVGTVKSRFSH/VPRDHQPTTHWWP WWSMAGRQRPSPTLSHFLSWMTSCLGP SHFRRELAFWKPTFPIHHRTRQSAHILVP LVFKGHFQQT
7924	15975	A	883	40	431	
7925	15976	A	884	122	341	
7926	15977	A	885	23	419	

7927	15978	A	886	1	598	LARNPGSTHASGGILLGRQCWVLTMAP KKAKKRAGGAN\SNVFSMFEQTQIQEFK EFTIMDQNRDGFIDKN\DLRDTFACPW RKLNVKNEEIDEM\KEAPGINFTVFLT MFWGRNLKGADPEGKPLNRISKVFDPE GKGVAEGLDYVREMLNNAGRRGFPRKE VDQMFAAFP\DTVGNLDYKNLVHIITH GEEKD
7928	15979	A	887	174	452	
7929	15980	C	888	60	245	
7930	15981	A	889	1878	2295	SFSPA WPSRW CASSSWCTDCLVPSTCAA LQHPVVFLDKGNHFLIFFYFFFFVILYTSS SHEVED*PCVMFSKIKWYLLE/VRYILVV AYRLSFCKERKKTIKLCQIILLCLAAARTW LPCLSLSLPPFLSFLSCMDFFEKK
7931	15982	A	89	69	342	VGNMSGTNLDGNDEFDEQLRMLELYGD GKDGDTLTDAGGEPDSLQYSTDTPTTE WDLDI*AWFFMISEYFLTYLVQFMAFL LYCGFMFL
7932	15983	A	890	3218	3469	
7933	15984	A	891	618	1236	
7934	15985	A	892	12	138	
7935	15986	A	893	1	1002	
7936	15987	A	894	66	293	RLFRFFCPTGCSLDVVLSLFS*GCGFL*S LHTGFMPSPF\WPGDSL SVQIVTNFSWR FSSAVAFSSASGSFPQGS
7937	15988	A	895	2202	2335	
7938	15989	A	896	343	906	
7939	15990	A	897	1455	1604	
7940	15991	A	898	370	807	
7941	15992	A	899	1	1548	
7942	15993	A	9	1130	1377	ASHLRSGVRDQPEQHGETPTLTKIQKSP GCGGRHL*SQLPGRRLRQENHLNLGGGG CGELRSHHCIPAWVTETLTKKKKKRR
7943	15994	A	90	144	2205	DRRERCHPFKRALMP/LRPAEPRPAFPIH HPLLQDANEA/PG/CWAEAVQGCP/TA DPPCVSRAAPGGSVPPFC/PGRL*GWGG PRGKGDPGLADSGPPCELRFEESRPPR VVGES\PAEKLAYPP\GPLCFF*PFSEF/PE L*TKSPS*EMTNHMLHSGGGGSWPGSPT SPGPPPGGSLPRAAALPPKTPGQTRAPAG AGCPHADLAMSPPGTPGSPPVAPTSLVA DCSSQNV*HPRVPEPTQAATPVQFPKNVI TSPGCQSPPKQ/APVPVPRMYN/MPRVT EPAQAATPESLGHVPELRSTQTVATASP GHLTPMKGTLSAREIPEVGTGPPWCPV PAPPSPPLCPAPRGSAAGLTLPLRASQTS GSTFLLISFFCKLTSPFPGLGVQGTAGG RSVCTVVQGVVSEGGTSVGQLLHLPVP LCPLSKGQ\VMAPIAGL/PIQCSGPPVQW GDPRPTPP*CIQPGQVYCCD/VLPALLCR FPGAAQPRTPHEWACPALAECLPCALRQ VPRAGQPG*TMCGAGTGPGCWKGGQK EAGGRCEKLTPPLNTTALPAPAGPCSQ PLSHGWPLPPSPH*DSRQGGPDF/ASPS QPWLKPPNPTMGLRKPRK*LLPASPKR LRKPKAASLPVRHPKASLGCS*EGLIWA LP*GWPCRWGPLGALGGTWQPPRHGP VLISRA*GLQPQLTK
7944	15995	A	900	3	127	VLCQFSKGMLPVFAQSV*YWLWVRYVP SIPSLLRVFSMKGC

7945	15996	B	901	1	1926	MFSDSLTPMHKERIVTLLKREGHVVGFM GDGINDAPALRAADIGISVDGAVDIARE AADHILLEKSLMVLEEGVIEGRRTFANML KYIKMTASSNFGNVFSVLVASAFLPFLP MLPLHLLIQNLLYDVSQVAIPFDNVDD QIQKPQRWNPADLGRFMIFFGPISIFDIL TFCLMWWVFHANTPETQTLFQSGWFWV GLLSQTLIVHMIRTRRVPIQSCASWPLM IMTVIVMIVGIALPFSPLASYLQALPLS YFPWLVAIAGLATNSDRFDLNLHVFRQ TGNFNARTCREGGVVFGEFGFASGFDDR FYVIQRLTCLCSDVCRYFARFRIYRDLTG GDDHIAQINXLYVRPIAAGPAGTFRLW HSRRAMLLTRADMEDRERFLNARDTLR ALLDNNIVPVINENDAVATAEIKVGDND NLSALAAILAGADKLLLLTDQKGLYTAD PRSNPQAEIKDVYGIDDALRAIAGDSVS GLGTGGMSTKLQAADVACRAGIDTIIAA GSKPGVIGDVMEGISVGTLFHAQATPLE NRKRWIFGAPPAGEITVDEGATAAILERG SSLLPKGIKSVTGNFSRGEVIRICNLEGRD IAHGVSRYNSDALRRIAGHHSQEIDAILG YEYGPVAVTVMHDYR*
7946	15997	A	902	1	1602	
7947	15998	A	903	1	972	
7948	15999	A	904	280	358	
7949	16000	A	905	141	152	QCPQPQPRPPGRCPTPQSGHTGCSTGG*GL NPLYYNLCDRSGAWGIVLEAVAGAGIVT TFVLTHILVASLPFVQDTKKRSLGTQLR GRCHHTAGTMGSC
7950	16001	A	906	177	247	
7951	16002	A	907	574	737	
7952	16003	A	908	221	576	GVGGDTHDTHPNTGREGGPSRSGAHVA GPARGRRSLESPLPGARSSGSPNPNTASP SPPLTQSHT*GFPKRPESSCRLSRGVAAW WLWAEYIVFKPAGSSWHCPSPWLLAVA RGRMMS
7953	16004	A	909	1	157	TKTWTLKKHFVGYPTNSDFELKTAELPP LKN/GRVAAKRLKEGDTMMGQQVAK
7954	16005	A	91	122	874	SPLGLGLRQKIFNWEAGGSIKPLTPSP PARQGQGGPFSSSSPSSSPES*LFPALRT PSRQGGSALPASGLSTPACVPSGSTRNL FHAPHVGRVSLLLPAS*KAAGPSKKKGP QVNPA*FRKPGVGI*RSVGPRQPLE*LH ARKNRAGPVPLPGLGKEGPSLQGPKRTQ LASLLMEGPPTHPTIHDGTTAQPELWPC RGPQMOSWGSQPEHTFGPRQPHPPHPS RHRSDSESSLLQASAHPGKA
7955	16006	A	910	3	484	VRLREDDRRGPSLGTCHKSDPGRPAAQS QPPSPGSGTFGLLSFRMVRTKTWTLKKH FVGYPTNSDFELKTAELPPLKNGEVLE ALFLTVDPYMRVVEKKNVALPKGTIVLA SPGWTHSISDGKDLEKLLTEWPDITPLS LALATVGMPGLATAYFGLLE
7956	16007	A	911	1	1147	MLLCQKAPSLKTTYNHPPAADSAGTAL NLETTVKQTRTQLEYNNVGTDLSPPEK SFNYPLSSSGDQFEIQLNQQLWSLIPNN DVRRLVSHVIRTLKTDCTETHLQACAK LISRTGLLMKLLSEQQELRTVSMATAWK RMNRKSRSRMRQSHFASHAGRWWHNH STLQPQSPKLQMAELSEARRRSFRMVRT KTWTLKKHFVGYPTNSDFELKTAELPPL KNGGLEFLIAYGMLYFVEVLLEALFLTV DPYMRVAAKRLKEGDTMMGQQVAKV VESKNVALPKGTIVLASPGWTHSISDG KDLEKLLTEWPDITPLSLALGTVGMPGL TAYFGLLEICGVKGGGETVMVNAAGAV GSVVGQIAKLKGCKVVGAVGSDEK

7957	16008	A	912	214	540	
7958	16009	A	913	495	684	
7959	16010	A	914	1	1911	
7960	16011	A	915	3	1381	KTPFVG YQHQRPKVDKTTKMGRNQSRK AENSKNQSTSSPPKDRSSLPATEQSWTE NDFDELTEVGFRRSAITNFSELKEHVLTR RKEAKNLEKRLDEWLTRINSVEKTLNDL MELKTMAQELRDARTSFNS*FNQVEKRI SVIEDQIDEIKQDDKAAETCNWRWVSES LRQLRASVDAFHARASHYNAGECLHQL AALNSRLNCAQEMARRDSIGEVPPVPW RTVVSGSIAGEAKLDHLRLVSLIGREVN KENS PAATRWLFSFQAGALAGGQIVLQA AKPNAHGQPVVATRNLNPNAGIVAVLK QRPLVAAAVQAFYLRDPIDLRACRVFK TFLPETRIMTSYYAIEWSLWTLVDVLHA ENSESAHMSHNSYDPPSDVARHLTHLPM SPIPDYIARFRYRHRSRVRLTARKLSPAF MRCSSIEQRYSTMLERGFNGGYCRSTTV RVVTEATRMLSF
7961	16012	A	916	1	1191	
7962	16013	A	917	1	227	
7963	16014	A	918	1	392	
7964	16015	A	919	157	388	
7965	16016	A	92	27	319	IINTSISLWFLGLSSIIHHYQERFL*FN*FG SYMVFIEIFFGISSAFFVC*WPK/Y/LLYFR YCRCFLILLLSIFEF/DLCYLVL*IFMFFL FFYMFLCV
7966	16017	A	920	451	593	
7967	16018	A	921	467	1038	
7968	16019	A	922	233	345	
7969	16020	A	923	1	1386	
7970	16021	A	924	1	1254	
7971	16022	A	925	36	695	
7972	16023	B	926	52	554	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLLKAERERGITIDISLWKFETSKY YVTHIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPI*
7973	16024	A	927	63	1545	PLKAKMGKEKTHINIVVIGHVDITGKST TTGHLIYKCGGIDKRTIEKFEKEAAEM GKGSFKYA*VLDKLLKAERERGITIDISL WKFETSKY YVD*SLIAPGHRDFYSKT* FTGTISRDLVWGAPFLGG/CLP*LFAAG VWWNLKAGISQEWGRTREHALLGLHTG VWKQTKLFGVNKNWIST*GHPTAQKKIL KEIVKGKSALT LRKIGYNPDTSSILCPISG WNGDNMLEPSAINMPWFQGDGKVTRK DGNASGTTLLEALDCILPPTRPDKPLGL PLQDVYKIGGIGTVPVGRVETGVLPKPGM VVTFGPVNVTTTEVKSVMHHEALGEAL PGDNVGFNVKNVSVKDVRRGNVAGDS KNDPPMEAAGFPAQVILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPPLGCFVRDMRQTVAVGVKA VDKKAAGAGKVTKSAQKAQKAK
7974	16025	A	928	2	246	
7975	16026	A	929	318	420	
7976	16027	A	93	264	664	IRLAFCGIFQAFSICNSNIWLLPEIPLLG IYP*E*NTKTCTQMFTAALFIIS*KVEISQ MPIINEKINKLWYIHMTCHTKNKVLIRDT T*MNLENIKLNERGQTKKKKKAIYCLSL FM*YVQNRQIHTDEK
7977	16028	A	930	205	400	

7978	16029	A	931	234	425	ICKWILPCGLAGSYKIAKWVSGFTLLLT HMGVGAAWV*LSLFGYTILF*FPKMSSFL TMKKDIF
7979	16030	A	932	405	862	
7980	16031	A	933	2	412	
7981	16032	A	934	110	431	
7982	16033	B	935	754	1544	MREIVHIIQAGQCGNQIGAKFWEPWKASS IELSQCRNSPSKVFRSKEHDGLPVTTPTR R*
7983	16034	A	936	1	451	
7984	16035	A	937	1	258	
7985	16036	A	938	3	1906	
7986	16037	A	939	1	585	ECLCVSTAVRIRHEKTMTELLRGGSF FKDMRVPSALVTLHMLLCIPLSGRLDS DEQKIQNDIIDLTTFTQGVNEKLTISEET LANNTWSLMLKEVLSSILKVPEGFFSGLI LSELLPLPLMQTTQVSLPYNMHLINDC SNTF*KASDSVKKQKPSSPFLPKRHKITG *GGDKTETSWSLRKYGGKNFK
7987	16038	A	94	2	605	SHGTPGRPTRPVEFFSGGSAGSFSPWPK KAKKRAGGADSNVFSMFQNTQMGEFK EAFSIMDQNRDGFIDKN\DLRDTFAALGE VN\VKNEEIDEM\IKEA\PGPLNFTVFLTN VWGENLREADPE\ETILN\AFKIVFDP*RP KGCMA\DY\VS GKMLTHAGRRRFSKE\ EV\DQMFAGLPLT*LGNDLYKNL\VHIIT HGEEKD
7988	16039	A	940	625	2115	
7989	16040	A	941	180	359	GSLQRDRWPTSSWRTGRQGSSLLRPRWI SFLAQLWRV*RIPAGTFVIRIEDGNRRRA FI
7990	16041	A	942	1286	2188	
7991	16042	A	943	1	2537	
7992	16043	A	944	2	437	
7993	16044	A	945	298	581	GARAEARAGSGQGAGLVSSPVRWRG WSDKGAERPGGPLSPLREVSRAGPSG/H AARGQQPGRPRFPFPPGPRPRRRCPCTRA RPGGAAGGGPCL
7994	16045	A	946	377	639	
7995	16046	A	947	1279	2253	
7996	16047	A	948	268	369	
7997	16048	A	949	15	440	
7998	16049	A	95	1	1254	
7999	16050	A	950	118	375	VAVVQIIFLPVFIAEKYKDLVPDNSKTAD NATKNAEPLINLDVNNPDFKAGVMALA NLLQIQRHDDYLVMK\AIRILVQERLTQ D
8000	16051	A	951	1	969	AATVLTITIGEAPSRSDSAPARPLAASPV PAPPAPPRFFSPGRPGDQSEKRWTMFR RKLT\SLDYHNPAGFNCKDETEFRNFIV WLEDQKIRHYKIEDRG\NLRNIHSSDWPK VFEKYFKRC*ICPFKIQDRQESYLTGFFG LAVRLEYGDNAEKYKDLVPDNSKTA*Q LQLKIAEPLINLDVNNPDFKAGVVGFG* TWLQIQRHDGLPGQMLKANS GFVWQE RLDHQGCQFA*GQIKQKRGLPVALDKHI LGFDTGDAVLNEAAQILRLLHIEELRELQ TKINEAIVAVQAIADPKTDHRLGKSLED EHLRTSASHLL
8001	16052	A	952	1258	1429	
8002	16053	A	953	189	403	

8003	16054	A	954	51	1702	GLPRCASVQPVVECYQRRWKRWLWDIT WEKWKQMDTVQKSIYRNILAEKYRNLVL LDGKLAAGAKTSRVEQQDISKED*SQRL EMEELAKRKSVPEEIWKSRGQFKNQQLN KENNLGQEIACTKIPTRKRDIESNEF/RE KFYCKINTCC/MNR*ILWKRIVINMVHVE RCSNKTQI*LYKESMMEEKKKPKYSECG RTFRGHITLVQHQITHCGERPCKCTEGRK GFNQSSHLRNNQRKTLGSEKPYKSECG KAFSYCLVLNQHQRIHSGEKPYEGETCG KTFIQS\SYLTQHQR/TSHTGEKPYTCLEC GRLFSQNTHTLHQRHTGEKPYECNEC GRSFSQTAHLTQHQRMYTGEKLYECNE CEKAFHDHSAHQHIVHTAEKPYDIMIT GKTFSYCSDLIQHQRMTGEKPYKNEC GNAFSDCSSLIQHQRHTHTGEEPYECKQC GKAFSRSTYLTQHQRSHAGEKQYKNE CEKTFSLSSFLTQHMRVQTGEKPYKYNE YGKAFCDCSGHFQRTHTGEKPCCECND GKPFSCSALIQHKRIHTRKKP
8004	16055	A	955	2	270	REEKEWPPHTQPWYPEGCFKDGQHYEE GSVIKENCNS*WTAQNYSQFWGMTLED GFKFRLGTLPPSPMLLSMNEMTVSVPSD SRMCMYL
8005	16056	A	956	1	999	
8006	16057	A	957	1	1518	VHCSEFPGRPPRPRTRGRKVEAIPVFQR MWTGYKILIFS\YLTTEIWMKQYLSQRE VDLEAYFTRNHTFLQGTHFK\RAIFQ\GQ YCRNFGCCEDRDDGCVTEFYAANALCY CDKFCRENSDCCPDYKSFCREEKEWPP HTQPWYPEGCFKDGQHYEEGSGVIKENC NSCTCSGQWKCQSHVCLVRPELIEQV NKG DYGWTAQNYSQFWGMTLEDGFKF RLGTLPPSLMLLSMNEMTASLPATTDLP EFFVASYKWPGWTHGPLDQKNCAASW AFSTASVAADRIAQSKGRYTANLSPQNL ISCCA\NRHGCNSGSDRAWWYLRKRG LVSHACYPLFKDQ\NATNNGCAMASRSD GRGKRHATKPCPNNVEKSNRIYQCSPPY RVSSNETEIMKEIMQNGPVQAIMQVHED FFHYKTGIYRHVTSTNKESEKYRKLQTH AVKLTGWGTLRGAQ\GQKEKFWIAANS WGKSWGENGYFRILRGVNESDIEKLIIAA WGQLTSSDEP
8007	16058	A	958	316	411	
8008	16059	A	959	314	390	
8009	16060	B	96	52	554	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFYA WVLDK\KAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNM\IILNHPGQISAGY APVLDCHTAH\ACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPI*
8010	16061	A	960	112	1154	SCGLGHRKTFSFVSLPARNETQPKACRE QNMEGDFSVCRCNC*RHVV\SANFTLHEA YCLRFLVLCPECEEPVPKETMEEHCKLE HQQV\GCTMCQQIMHKSSLEFHKANECQ ERPVECKFCKLDMQLSKLELHESYCGSR TELCQCGCGQFIMHRMLAQRRDVC\RSQ AQLGKGERISAPEREIYCHYCNQMIPEN KYFHMMGKCCPDSEFKKHFPVGNPEILP SSLPSQAAENQTSTMEKDVRPKTR\SNRF PLHSESSSKKAPRSKNKTLDP\LLMSEPKP RTSSPRGDKAAYDILRRCSQCGILLPLPIL NQHQEKCRWLASSKRKTSEKFQLDLEK ERYYKFKRFHF
8011	16062	A	961	103	538	
8012	16063	A	962	1	405	
8013	16064	C	963	334	471	

8014	16065	A	964	1	1137	
8015	16066	A	965	1	451	GDRPFRV*DPRAQAATFWTDPSLS*SL LLGVMFPAAPSPRTPGTGPRRGPLAGLG PGSTPRTASRMGLPLGSAVSSPVLFSPGG RRSSLISRGTPTRMLPHHSITESVNYDAK TIGSSLPVKVMEALTLAEVDDQLTNINE GGWACLV
8016	16067	A	966	301	1867	
8017	16068	A	967	57	383	GWLAHTANERPVRCPFVWLEGFLENIRA PTLNF*QIQQLAIFVEPIKTILLPFCFFRIF STRVRICTYSSHSFPGPGAGLLHFCSSSL VRFKISFGDTVAVAPVPDF
8018	16069	A	968	507	904	GKRAGECWRRSLRPRGPRGETRAASPSS ARPSLALASAPRPKSGPRRQGP RRPLW PRGLKGQVCARGPGRGGPGGVGGRRSA SARAPRVPGDQPPPPAPSS*ED/WT*EIG RLSSHAPLAVLHTRSALLNS
8019	16070	A	969	379	858	
8020	16071	A	97	1	1299	
8021	16072	A	970	259	483	
8022	16073	A	971	175	588	
8023	16074	A	972	1	383	
8024	16075	A	973	79	445	
8025	16076	A	974	1163	1401	
8026	16077	A	975	80	406	
8027	16078	C	976	70	240	MITGTSQADCAVLIVAAGVGEFXAGISK NGQTRRDMRKXLRKSALTTLRKLATTPT Q*
8028	16079	B	977	68	490	MGKEKTHINIVVIGHVDSGKSTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLA*
8029	16080	A	978	261	406	
8030	16081	A	979	1	678	
8031	16082	A	98	36	697	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLIYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYYVTIIDAPGHRDFIKNMITGTS\ QADCAVLIVAAGVGEFEAGISKNGQTRE HALLAYTLGVKQLVGVNKM DSTGAIL TGDFPSLEPRHVSTWLQHVVVTIPTRNWH KCYCVGVVANFLNVSADFLNNF
8032	16083	A	980	181	340	
8033	16084	A	981	1	375	

8034	16085	A	982	1	2583	MVNFTVDQIRAIMDKKANIRNMSVIAHV DHGKSTLTDSLVCAGIIASARAGETRFT DTRKDEQERCIPIKVNAISLFYELSEND LNFIQQSKDGAGFLINLIDSPGHVDFSE VTAALRVTMGALVVVDCVSGVCVQTET VLRQAIARIKPVLMNMKMDRALLELQ LEPEELYQTFQRIVENVNVIISTYGESE PMGNIMIDPVLGTGVFGSGLHGWAFTLK QFAEMYVAKFAAKGEGQLGPAERAKK VEDMMKKLWGDYFDPANGKFSKPAT SPEGKKLPRTFCQLILDPIFKVFDAMNF KKEETAKLIEKLDIKLDEKDKKEGKPLL KAVMRRWLPAGDALLQMITIHLPSPVTA QKYRCELLYEGPPDDEAAMGKSCDPKG PLMMYISKMVPTSDKGRFYAFGRVFSGL VSTGLKVRIMGPNYTPGKKEDLYLKPIQ RTILMMGRYVEPIEDVPCGNIVGLVGVD QFLVKITGTITTFEHAHNMRVMKFSVSPV VRVAVEAKNPADLPKLVEGLKRLAKSD PMVQCIIEESGEHIIAGAGELHLEICKDL EEDHACIPIKSDPVVSYRETVSESNVL CLSKSPNKHNRLYMKARPPDGLAEDID KGEVSARQELKQRARYLAEKYEWVDAE ARKIWCFGPDGTGNILTDITKGVQYLN EIKDSVVAGFQWATKEGALCEENMRGV RFDVHDVTLHADAIHRGGGQIPTARRC LYASVLTAQPRLEPIYLVEIQCEQVVG GIYGVLRNRKRGHVFEESQVAGTPMFVV KAYLPVNESFGFTADLRSNTGGQAFPC VFDHWQILPGDPDNSSRPSQVVAETRK RKGLKEGIPALDNFLDKL
8035	16086	A	983	1326	1498	
8036	16087	A	984	60	966	RRRNSDGNACQPATHLLLSARFITGHGQ KLKSELKKTQVIMLNQKVRIPTRDGY NEKDILSTGKNVEKLELSNIAGYPSNIEK KEYQEQSLSCCSERKDANPKSVVCSFF MQEQCTKGEKRFILPGTSLVDRHLRYFG ILPTVSNAAVVKEVPTVSNAAVVTEAPT GSNAAVVTEAPTGSNAARVMEVPTGSN AAVVTEVPTGSNAAVVTEAPTGSNAAV VKEAPTGSNAARVMEVPTGSNAAVVKE APTGSNAARVMEVPTGSNAAVVKEVPT GSNAAVVKEVPTGVTLRWSRKRPRE
8037	16088	A	985	1393	1625	
8038	16089	A	986	358	475	
8039	16090	A	987	232	329	
8040	16091	A	988	127	461	
8041	16092	A	989	562	897	
8042	16093	A	99	62	1548	PLKAKMGKEKTHNIVVIGHVDSGKST TTGHLIYKC\GGNDKRTIEKFEKEAEM GKGSFKYAWVLDKLKAERIERGITIDISL WKFETSKYYVD*SLIAPGHQETFIQKH DLQGTSQGLAWFGGPPFWGGSPLIVAA GVVGEF*SLVSPKNGADPTKHALGLHT GVWVKQTKLFGVNKNWIST*/EPPYSPEED IEGNC*GKVSTYIKKIGYNPDTSSILCPIS GWNGDNMLEPSPNMPWFQGDGKVTR KDGNASGTTLEALDCILPPTRPTDKPLG LPLQDVYKIGGIGTVPVGRVETGVLKPG MVVTFGPVNVTEVKSVMHHEALGEA LPGDNVGFNVKNVSVKDVRRGNVAGDS KNDPPMEAAGFPAQVILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPPLGCFVRDMRQTVAVGVIIKA VDKKAAGAGKVTKSAQKAQKAK
8043	16094	A	991	7	494	
8044	16095	A	992	206	357	

8045	16096	A	993	1	101	
8046	16097	A	994	256	407	
8047	16098	A	995	254	432	
8048	16099	A	996	249	400	
8049	16100	A	997	37	465	
8050	16101	C	998	127	216	MRLRKQAEKNVEKKIDKYTEVLKTHGL LV*
8051	16102	A	999	1	1258	LFLPLLEPGERRGLLYRSRPGGAVAILL AAAVS\CAV\SQHAPPWTEDCRKSTYPPS RPTYRGAVPWDTIQCLTYHPYKRWHEL MLDKAPV/LQKVIVNSLKNMINTF\VP\SG KIMQVVDEKL\PGLLGNFP\GPFEEMKG IGRCLLDIPLGEIISFNIF\YE\FTICTSIVA EDKKGHLIHGRN\MDFGVFLVWNINND TWVITEQLKPLTVNLDFQRNNKTVFKAS SFAGYVGMLT\GFKPGLFSLTLNERFSIN GGYLGILEWILGKKDAMWIGFLTRTVLE NSTSYEEAKNLLTKTKILAPAYFILGCNQ SGEGCVITRDRKESLDVYELDAKQGRW YVVQTNVDRWKHPFLDDRRTPAKMCL NRTSQENISFETMYDVLSTKPVLNKLTV YTTLIDVTKGQFETYLRDCPDPCIGW

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, and complementary sequences thereof.
2. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions.
3. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide has greater than about 90% sequence identity with the polynucleotide of claim 1.
4. The polynucleotide of claim 1 wherein said polynucleotide is DNA.
5. An isolated polynucleotide of claim 1 wherein said polynucleotide comprises the complementary sequences.
6. A vector comprising the polynucleotide of claim 1.
7. An expression vector comprising the polynucleotide of claim 1.
8. A host cell genetically engineered to comprise the polynucleotide of claim 1.
9. A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell.
10. An isolated polypeptide, wherein the polypeptide is selected from the group consisting of:
 - (a) a polypeptide encoded by any one of the polynucleotides of claim 1; and
 - (b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO: 1-8051.
11. A composition comprising the polypeptide of claim 10 and a carrier.
12. An antibody directed against the polypeptide of claim 10.

13. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide of claim 1 for a period sufficient to form the complex; and
 - b) detecting the complex, so that if a complex is detected, the polynucleotide of claim 1 is detected.
14. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions;
 - b) amplifying a product comprising at least a portion of the polynucleotide of claim 1; and
 - c) detecting said product and thereby the polynucleotide of claim 1 in the sample.
15. The method of claim 14, wherein the polynucleotide is an RNA molecule and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.
16. A method for detecting the polypeptide of claim 10 in a sample, comprising:
- a) contacting the sample with a compound that binds to and forms a complex with the polypeptide under conditions and for a period sufficient to form the complex; and
 - b) detecting formation of the complex, so that if a complex formation is detected, the polypeptide of claim 10 is detected.
17. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:
- a) contacting the compound with the polypeptide of claim 10 under conditions sufficient to form a polypeptide/compound complex; and
 - b) detecting the complex, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.
18. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10, in a cell, under conditions sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and

b) detecting the complex by detecting reporter gene sequence expression, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

19. A method of producing the polypeptide of claim 10, comprising,

a) culturing a host cell comprising a polynucleotide sequence selected from the group consisting of a polynucleotide sequence of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, complementary sequences thereof and a polynucleotide sequence hybridizing under stringent conditions to SEQ ID NO: 1-8051, under conditions sufficient to express the polypeptide in said cell; and

b) isolating the polypeptide from the cell culture or cells of step (a).

20. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 8052-16102, the mature protein portion thereof, or the active domain thereof.

21. The polypeptide of claim 20 wherein the polypeptide is provided on a polypeptide array.

22. A collection of polynucleotides, wherein the collection comprises the sequence information of at least one of SEQ ID NO: 1-8051.

23. The collection of claim 22, wherein the collection is provided on a nucleic acid array.

24. The collection of claim 23, wherein the array detects full-matches to any one of the polynucleotides in the collection.

25. The collection of claim 23, wherein the array detects mismatches to any one of the polynucleotides in the collection.

26. The collection of claim 22, wherein the collection is provided in a computer-readable format.

27. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

28 A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising an antibody that specifically binds to a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.